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INTRODUCTION

We are pleased to present to the solar community, in this volume of *Solar Physics*, complete subject and name indexes for the volumes 1 through 100. We are convinced that the topical index, in particular, will be of considerable assistance to all research workers interested in the work done in solar physics during the past two decades. Our sincere thanks are due to Karen L. Harvey, who prepared the subject index for publication.

CORNELIS DE JAGER AND ZDENĚK ŠVESTKA

The Editors

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KAREN L. HARVEY

Subject Index – Volumes 1–100

January 1967 – October 1985

LIST OF SUBJECTS

| | |
|--|----|
| Absorption, Continuous (<i>see Spectrum, Continuum</i>) | |
| Absorption, Particle (<i>see Energetic Particles</i>) | |
| Absorption, Radio (<i>see Radio Emission</i>) | |
| Abundances | 9 |
| Abundances, Anomalies (<i>see Abundances</i>) | |
| Abundances, Isotopes (<i>see Abundances</i>) | |
| Acceleration, Mechanisms (<i>see Energetic Particles, Acceleration</i>) | |
| Active Longitudes | 14 |
| Active Regions | 14 |
| Active Regions, Evolution | 19 |
| Active Regions, Magnetic Field | 21 |
| Active Regions, Models | 26 |
| Active Regions, Morphology (<i>see Active Regions</i>) | |
| Active Regions, Stellar (<i>see Stellar Physics</i>) | |
| Active Regions, Velocity Field | 28 |
| Atlas's, Catalogs, Films, Observations Available | 30 |
| Atmospheres, Stellar (<i>see Stellar Physics</i>) | |
| Atmospheric Extinction (<i>see Earth's Atmosphere</i>) | |
| Atmospheric Modeling Techniques | 30 |
| Atmospheric Models, Solar | 33 |
| Atmospheric Models, Stellar | 34 |
| Atmospheric Seeing (<i>see Earth's Atmosphere</i>) | |
| Atomic Parameters | 34 |
| Aurora (<i>see Magnetosphere</i>) | |
| Book Reviews | 37 |
| Center-Limb Observations | 40 |
| Center-Limb Observations, Brightness | 41 |
| Center-Limb Observations, Line Profiles | 44 |
| Chromosphere | 46 |
| Chromosphere, Active (<i>see Chromosphere; Active Regions</i>) | |
| Chromosphere, Fibrils (<i>see Chromosphere, Structures</i>) | |
| Chromosphere, Heating (<i>see Heating, Atmospheric</i>) | |
| Chromosphere, Magnetic Fields (<i>see Magnetic Fields, Chromosphere</i>) | |
| Chromosphere, Models | 48 |
| Chromosphere, Mottles (<i>see Chromosphere, Structures</i>) | |
| Chromosphere, Network | 49 |
| Chromosphere, Quiet (<i>see Chromosphere</i>) | |
| Chromosphere, Radio Emission (<i>see Chromosphere</i>) | |
| Chromosphere, Spectrum | 53 |
| Chromosphere, Stellar (<i>see Stellar Physics</i>) | |
| Chromosphere, Structures | 55 |
| Chromosphere, Velocity Fields (<i>see Velocity Fields, Chromosphere</i>) | |
| Colloquium Reports | 60 |
| Comets | 61 |
| Contribution Functions (<i>see Atmospheric Models</i>) | |
| Convection | 61 |
| Convection Zone | 64 |
| Corona | 65 |
| Corona, Active | 68 |
| Corona, E | 73 |
| Corona, F (<i>see Corona</i>) | |
| Corona, K | 75 |

2 List of Subjects (*continued*)

| | |
|---|-----|
| Corona, Magnetic Fields (<i>see Magnetic Fields, Corona</i>) | 77 |
| Corona, Models | |
| Corona, Morphology (<i>see Corona; Corona, Structures</i>) | |
| Corona, Quiet (<i>see Corona</i>) | |
| Corona, Radio Emission (<i>see Corona</i>) | |
| Corona, Spectrum | 82 |
| Corona, Stellar (<i>see Stellar Physics</i>) | |
| Corona, Structures | 85 |
| Corona, Synoptic Observations (<i>see Corona</i>) | |
| Corona, Temperature | 89 |
| Corona, Velocity Fields (<i>see Velocity Fields</i>) | |
| Coronal Arches (<i>see Corona, Structures</i>) | |
| Coronal Condensations (<i>see Corona, Structures</i>) | |
| Coronal Heating (<i>see Heating, Atmospheric</i>) | |
| Coronal Holes | 92 |
| Coronal Mass Ejections | 95 |
| Coronal Polar Plumes (<i>see Corona, Structures</i>) | |
| Coronal Streamers | 97 |
| Coronal Transients (<i>see Coronal Mass Ejections</i>) | |
| Cosmic Rays, Galactic | 99 |
| Cosmic Rays, Solar | 100 |
| Current Sheets (<i>see Electric Currents and Current Sheets</i>) | |
| Earth's Atmosphere | 102 |
| Eclipses | 104 |
| Editorials | 111 |
| Electric Currents and Current Sheets | 111 |
| Ellerman Bombs | 115 |
| Emission, Continuous (<i>see Spectrum, Continuum</i>) | |
| Emission, Particle (<i>see Energetic Particles</i>) | |
| Emission, X-Ray | 115 |
| Energetic Particles | 117 |
| Energetic Particles, Abundances (<i>see Energetic Particles; Abundances</i>) | |
| Energetic Particles, Acceleration | 119 |
| Energetic Particles, Electrons | 121 |
| Energetic Particles, Energy Spectrum | 124 |
| Energetic Particles, Heavy Nuclei (<i>see Energetic Particles</i>) | |
| Energetic Particles, Helium Nuclei (<i>see Energetic Particles</i>) | |
| Energetic Particles, Medium Nuclei (<i>see Energetic Particles</i>) | |
| Energetic Particles, Neutrons (<i>see Energetic Particles</i>) | |
| Energetic Particles, Propagation | 125 |
| Energetic Particles, Protons | 128 |
| Ephemeris | 131 |
| Extreme Ultraviolet (EUV) Bursts | 131 |
| Faculae, Chromospheric (<i>see Chromosphere, Network</i>) | |
| Faculae, Models | 132 |
| Faculae, Photospheric (<i>see Photosphere, Network</i>) | |
| Filaments (<i>see Prominences</i>) | |
| Filigree (<i>see Intergranular Region and Subgranular Structures</i>) | |
| Flares | 133 |
| Flares, Dynamics (<i>see Flares</i>) | |
| Flares, Ejecta (<i>see Surges; Prominences, Spray; Prominences, Eruptive; Flares</i>) | |
| Flares, Energetic Particles | 144 |
| Flares, Flash Phase (<i>see Flares</i>) | |
| Flares, Forecasting (<i>see Flares</i>) | |
| Flares, Homologous (<i>see Flares</i>) | |
| Flares, Loop (<i>see Prominences, Loop</i>) | |

| | |
|---|-----|
| Flares, Models | 148 |
| Flares, Morphology (<i>see Flares</i>) | |
| Flares, Pre-Flare Phenomena (<i>see Flares</i>) | |
| Flares, Proton (<i>see Flares; Flares, Energetic Particles</i>) | |
| Flares, Relation to Active Region Magnetic Field | 156 |
| Flares, Spectrum | 159 |
| Flares, Stellar | 164 |
| Flares, Sympathetic (<i>see Flares</i>) | |
| Flares, Waves (<i>see Flares; Waves, Modes</i>) | |
| Flares, White-Light (<i>see Flares</i>) | |
| Frontispieces | 164 |
| Gamma Rays | 174 |
| Geomagnetic Storms (<i>see Magnetosphere, Geomagnetic Disturbances</i>) | |
| Granulation | 175 |
| Granulation, Chromospheric (<i>see Granulation</i>) | |
| Granulation, Models (<i>see Granulation</i>) | |
| Granulation, Photospheric (<i>see Granulation</i>) | |
| Heating, Atmospheric | 178 |
| Heating, in Flares | 181 |
| Hydrodynamics | 183 |
| Imaging | 186 |
| Imaging, Extreme Ultraviolet (<i>see Imaging</i>) | |
| Imaging, Infrared (<i>see Imaging</i>) | |
| Imaging, Radio (<i>see Imaging</i>) | |
| Imaging, Ultraviolet (<i>see Imaging</i>) | |
| Imaging, X-Ray (<i>see Imaging</i>) | |
| Instabilities | 187 |
| Instabilities, Convective (<i>see Instabilities</i>) | |
| Instabilities, Hydromagnetic (<i>see Instabilities</i>) | |
| Instabilities, Plasma (<i>see Instabilities</i>) | |
| Instabilities, Radiative (<i>see Instabilities</i>) | |
| Instabilities, Thermal (<i>see Instabilities</i>) | |
| Instrumental Effects | 190 |
| Instrumentation | 192 |
| Instrumentation, Coronagraphs (<i>see Instrumentation</i>) | |
| Instrumentation, Detectors (<i>see Instrumentation</i>) | |
| Instrumentation, Extreme Ultraviolet (<i>see Instrumentation</i>) | |
| Instrumentation, Filters (<i>see Instrumentation</i>) | |
| Instrumentation, Gamma Ray (<i>see Instrumentation</i>) | |
| Instrumentation, Gratings (<i>see Instrumentation</i>) | |
| Instrumentation, Infrared (<i>see Instrumentation</i>) | |
| Instrumentation, Kinetographs (<i>see Instrumentation</i>) | |
| Instrumentation, Magnetographs | 197 |
| Instrumentation, Optical (<i>see Instrumentation</i>) | |
| Instrumentation, Particle (<i>see Instrumentation</i>) | |
| Instrumentation, Radio (<i>see Instrumentation</i>) | |
| Instrumentation, Satellites (<i>see Instrumentation</i>) | |
| Instrumentation, Spectrographs (<i>see Instrumentation</i>) | |
| Instrumentation, Spectroheliographs (<i>see Instrumentation</i>) | |
| Instrumentation, Ultraviolet (<i>see Instrumentation</i>) | |
| Instrumentation, X-Ray (<i>see Instrumentation</i>) | 199 |
| Intergranular Region and Subgranular Structures | 200 |
| Integrated Sun Observations | 201 |
| Interferometry | 201 |
| Interior, Solar | |
| Interior, Stellar (<i>see Stellar Physics</i>) | |

4 List of Subjects (*continued*)

| | |
|---|-----|
| Interior, Magnetic Field Theory (<i>see Interior</i>) | |
| Interplanetary Medium (<i>see Solar Wind</i>) | |
| Interplanetary Sector Structure (<i>see Magnetic Fields, Interplanetary Sector Structure</i>) | |
| Ionosphere | 203 |
| Ionosphere, Flare-Induced Disturbances | 203 |
| Ionosphere, Models (<i>see Ionosphere</i>) | |
| Ionosphere, Non-Flare Disturbances (<i>see Ionosphere</i>) | |
| Limb Observations | 204 |
| Macrosicules (<i>see Spicules</i>) | |
| Magnetic Fields | 206 |
| Magnetic Fields, Chromosphere | 209 |
| Magnetic Fields, Corona | 209 |
| Magnetic Fields, Current Free (<i>see Magnetic Fields, Models</i>) | |
| Magnetic Fields, Dissipation (<i>see Magnetic Fields</i>) | |
| Magnetic Fields, Force Free (<i>see Magnetic Fields, Models</i>) | |
| Magnetic Fields, General (<i>see Magnetic Fields</i>) | |
| Magnetic Fields, Generation (<i>see Magnetic Fields</i>) | |
| Magnetic Fields, Interior (<i>see Magnetic Fields</i>) | |
| Magnetic Fields, Internetwork (<i>see Magnetic Fields</i>) | |
| Magnetic Fields, Interplanetary | 213 |
| Magnetic Fields, Interplanetary Sector Structure | 216 |
| Magnetic Fields, Models | 218 |
| Magnetic Fields, Network (<i>see Magnetic Fields</i>) | |
| Magnetic Fields, Photosphere | 224 |
| Magnetic Fields, Polar (<i>see Magnetic Fields</i>) | |
| Magnetic Fields, Solar Wind (<i>see Magnetic Fields, Interplanetary</i>) | |
| Magnetic Fields, Stellar (<i>see Stellar Physics</i>) | |
| Magnetic Fields, Transport (<i>see Magnetic Fields</i>) | |
| Magneto-Optical Effects (<i>see Spectral Line, Formation In Magnetic Field</i>) | |
| Magnetohydrodynamics | 228 |
| Magnetosphere | 234 |
| Magnetosphere, Aurora (<i>see Magnetosphere</i>) | |
| Magnetosphere, Earth (<i>see Magnetosphere</i>) | |
| Magnetosphere, Geomagnetic Disturbances | 235 |
| Magnetosphere, Models (<i>see Magnetosphere</i>) | |
| Magnetosphere, -Solar Wind Interactions (<i>see Magnetosphere</i>) | |
| Mesogranulation (<i>see Granulation</i>) | |
| Molecules | 237 |
| Molecules, Abundances (<i>see Molecules; Abundances</i>) | |
| Molecules, Spectrum | 237 |
| Neutrinos | 239 |
| Non-Thermal Radiation | 239 |
| Nuclear Reactions (<i>see Physical Processes</i>) | |
| Optical Depth (<i>see Atmospheric Models</i>) | |
| Oscillator Strengths (<i>see Atomic Parameters</i>) | |
| Oscillations | 242 |
| Oscillations, Intensity | 244 |
| Oscillations, Stellar | 246 |
| Oscillations, Velocity | 246 |
| Personalia | 251 |
| Photosphere | 251 |
| Photosphere, Magnetic Fields (<i>see Magnetic Fields, Photosphere</i>) | |
| Photosphere, Models | 252 |
| Photosphere, Network | 253 |
| Photosphere, Spectrum | 255 |
| Photosphere, Stellar (<i>see Stellar Physics</i>) | |

| | |
|---|-----|
| Photosphere, Structures (<i>see Photosphere</i>) | |
| Photosphere, Temperature | 257 |
| Photosphere, Velocity Fields (<i>see Velocity Fields, Photosphere</i>) | |
| Physical Processes (<i>see also Radiative Processes; Non-Thermal Radiation</i>) | 258 |
| Plages (<i>see Chromosphere, Network</i>) | |
| Planets | 261 |
| Plasma Ejections (<i>see Plasma Physics</i>) | |
| Plasma Instabilities (<i>see Plasma Physics; Instabilities</i>) | |
| Plasma Physics | 261 |
| Plasma Properties (<i>see Plasma Physics</i>) | |
| Plasma Turbulence (<i>see Plasma Physics</i>) | |
| Plasma, Particle Acceleration (<i>see Plasma Physics</i>) | |
| Plasma, Wave Modes (<i>see Waves, Plasma; Plasma Physics</i>) | |
| Polarization | 264 |
| Polarization, Instrumental (<i>see Instrumental Effects</i>) | |
| Polarization, Line (<i>see Polarization</i>) | |
| Polarization, Optical | 267 |
| Polarization, Radio | 268 |
| Polarization, X-Ray (<i>see Polarization</i>) | |
| Prominences | 272 |
| Prominences, Active | 276 |
| Prominences, Classification (<i>see Prominences</i>) | |
| Prominences, Dynamics | 278 |
| Prominences, Eruptive | 280 |
| Prominences, Evolution (<i>see Prominences</i>) | |
| Prominences, Formation (<i>see Prominences</i>) | |
| Prominences, Loop | 283 |
| Prominences, Magnetic Fields (<i>see Prominences</i>) | |
| Prominences, Models | 285 |
| Prominences, Morphology (<i>see Prominences</i>) | |
| Prominences, Quiescent | 288 |
| Prominences, Spectrum | 292 |
| Prominences, Spray (<i>see Prominences</i>) | |
| Prominences, Temperature (<i>see Prominences, Models</i>) | |
| Quantum Mechanics | 294 |
| Radar Observations | 294 |
| Radiative Equilibrium (<i>see Radiative Transfer ftr</i>) | |
| Radiative Flux | 294 |
| Radiative Flux, Absolute (<i>see Radiative Flux</i>) | |
| Radiative Flux, Relative (<i>see Radiative Flux</i>) | |
| Radiative Processes | 297 |
| Radiative Transfer | 301 |
| Radiative Transfer, in Spectral Lines | 302 |
| Radio Bursts | 304 |
| Radio Bursts, Association with Flares | 306 |
| Radio Bursts, Association with Non-Flare Phenomena (<i>see Radio Bursts</i>) | |
| Radio Bursts, Decimeter (<i>see Radio Bursts</i>) | |
| Radio Bursts, Dekameter (<i>see Radio Bursts, Meter-Wavelengths and Longer</i>) | |
| Radio Bursts, Dynamic Spectrum | 310 |
| Radio Bursts, Meter-Wavelengths and Longer (m, dkm, hm, km) | 314 |
| Radio Bursts, Microwave (mm, cm) | 319 |
| Radio Bursts, Theory (<i>see Radio Emission, Theory</i>) | |
| Radio Bursts, Type I | 326 |
| Radio Bursts, Type II | 327 |
| Radio Bursts, Type III | 329 |
| Radio Bursts, Type IV | 336 |

6 List of Subjects (*continued*)

| | |
|--|-----|
| Radio Bursts, Type V (<i>see Radio Bursts</i>) | |
| Radio Emission | 339 |
| Radio Emission, Active Regions (<i>see also Radio Emission, S-Component</i>) | 340 |
| Radio Emission, Association with Non-Flare Phenomena (<i>see Radio Emission</i>) | |
| Radio Emission, Models | 344 |
| Radio Emission, Quiet | 347 |
| Radio Emission, S-Component (<i>see also Radio Emission, Active Regions</i>) | 349 |
| Radio Emission, Stellar (<i>see Stellar Physics</i>) | |
| Radio Emission, Theory | 351 |
| Radio Scintillation | 357 |
| Red Shift, Non-Doppler | 357 |
| Reports from Solar Institutes | 357 |
| Rotation | 360 |
| Rotation, Differential | 363 |
| Rotation, Stellar (<i>see Stellar Physics</i>) | |
| Scattered Light (<i>see Instrumental Effects</i>) | |
| Solar Cycle | 366 |
| Solar Cycle, Models | 373 |
| Solar Diameter | 373 |
| Solar Oblateness | 374 |
| Solar Precession (<i>see Ephemeris</i>) | |
| Solar-Stellar Connection (<i>see Stellar Physics</i>) | |
| Solar Wind | 374 |
| Solar Wind, Abundances (<i>see Solar Wind; Abundances</i>) | |
| Solar Wind, Discontinuities (<i>see Solar Wind</i>) | |
| Solar Wind, Dynamics (<i>see Velocity Fields, Solar Wind</i>) | |
| Solar Wind, Flare-Associated Disturbances | 374 |
| Solar Wind, Interaction with Earth, Moon, Planets, Comets (<i>see Solar Wind</i>) | |
| Solar Wind, Magnetic Fields (<i>see Magnetic Fields, Interplanetary</i>) | |
| Solar Wind, Models | 380 |
| Solar Wind, Sector Structure (<i>see Magnetic Fields, Interplanetary Sector Structure</i>) | |
| Solar Wind, Shock Waves | 381 |
| Solar Wind, Spectrum (<i>see Solar Wind</i>) | |
| Solar Wind, Streams (<i>see Velocity Fields, Solar Wind</i>) | |
| Solar Wind, Theory | 383 |
| Spectral Line | 385 |
| Spectral Line, Asymmetries (<i>see Spectral Line, Profiles</i>) | |
| Spectral Line, Blanketing (<i>see Spectral Line</i>) | |
| Spectral Line, Broadening | 386 |
| Spectral Line, Curve Of Growth (<i>see Spectral Line</i>) | |
| Spectral Line, Displacements (<i>see Spectral Line</i>) | |
| Spectral Line, Equivalent Widths | 388 |
| Spectral Line, Formation in Magnetic Field | 390 |
| Spectral Line, Height of Formation | 392 |
| Spectral Line, Identification | 393 |
| Spectral Line, Intensity | 398 |
| Spectral Line, Profiles | 402 |
| Spectral Line, Theory | 410 |
| Spectrum | 414 |
| Spectrum, Continuum | 415 |
| Spectrum, Extreme Ultraviolet | 416 |
| Spectrum, Forbidden Lines | 418 |
| Spectrum, Gamma Ray (<i>see Spectrum; Gamma Rays</i>) | |
| Spectrum, Infrared | 420 |
| Spectrum, Particle (<i>see Spectrum; Energetic Particles, Energy Spectrum</i>) | |
| Spectrum, Radio | 421 |

| | |
|---|-----|
| Spectrum, Stellar (<i>see Stellar Physics</i>) | |
| Spectrum, Telluric (<i>see Spectrum</i>) | |
| Spectrum, Theory | 422 |
| Spectrum, Ultraviolet | 423 |
| Spectrum, Visible | 424 |
| Spectrum, X-Ray | 426 |
| Spicules | 428 |
| Stark Effect | 430 |
| Stars (<i>see Stellar Physics</i>) | |
| Stellar Activity Cycles (<i>see Stellar Physics</i>) | |
| Stellar Physics | 431 |
| Stellar Winds and Mass Loss (<i>see Stellar Physics</i>) | |
| Subgranular Structures (<i>see Intergranular Region and Subgranular Structures</i>) | |
| Sunspots | 431 |
| Sunspots, Chromosphere (<i>see Sunspots</i>) | |
| Sunspots, Convection Zone (<i>see Sunspots</i>) | |
| Sunspots, Evershed Effect (<i>see Sunspots, Velocity</i>) | |
| Sunspots, Evolution (<i>see Sunspots</i>) | |
| Sunspots, Light Bridges (<i>see Sunspots</i>) | |
| Sunspots, Magnetic Fields | 437 |
| Sunspots, Models | 439 |
| Sunspots, Morphology (<i>see Sunspots</i>) | |
| Sunspots, Penumbra | 441 |
| Sunspots, Photosphere (<i>see Sunspots</i>) | |
| Sunspots, Pores (<i>see Sunspots</i>) | |
| Sunspots, Proper Motion (<i>see Sunspots, Velocity</i>) | |
| Sunspots, Spectrum | 443 |
| Sunspots, Statistics | 446 |
| Sunspots, Superpenumbra (<i>see Sunspots</i>) | |
| Sunspots, Temperature (<i>see Sunspots, Models</i>) | |
| Sunspots, Theory | 448 |
| Sunspots, Umbra | 450 |
| Sunspots, Velocity | 453 |
| Sunspots, Wave Phenomena (<i>see Sunspots</i>) | |
| Sunspots, Wilson Effect (<i>see Sunspots</i>) | |
| Supergranulation | 455 |
| Surges | 457 |
| Transition Region | 459 |
| Transition Region, Models (<i>see Transition Region</i>) | |
| Transition Region, Stellar (<i>see Stellar Physics</i>) | |
| Transits of Planets | 461 |
| Turbulence | 461 |
| Turbulence, Macro (<i>see Turbulence</i>) | |
| Turbulence, Micro (<i>see Turbulence</i>) | |
| Velocity Fields | 463 |
| Velocity Fields, Chromosphere | 466 |
| Velocity Fields, Coróna (<i>see Velocity Fields</i>) | |
| Velocity Fields, General Circulation (<i>see Velocity Fields</i>) | |
| Velocity Fields, Interior (<i>see Velocity Fields</i>) | |
| Velocity Fields, Large Scale (<i>see Velocity Fields</i>) | |
| Velocity Fields, Oscillations (<i>see Oscillations, Velocity</i>) | |
| Velocity Fields, Photosphere | 468 |
| Velocity Fields, Solar Wind | 472 |
| Waves | 475 |
| Waves, Acoustic | 478 |
| Waves, Alfvén | 480 |

| | |
|--|-----|
| Waves, Dispersion (<i>see Waves</i>) | |
| Waves, Dissipation (<i>see Waves</i>) | |
| Waves, Generation (<i>see Waves</i>) | |
| Waves, Gravity (<i>see Waves, Modes</i>) | |
| Waves, Hydromagnetic (<i>see Waves, Modes</i>) | |
| Waves, Magnetohydrodynamic (<i>see Waves, Modes</i>) | |
| Waves, Modes | 481 |
| Waves, Moreton (<i>see Waves, Modes</i>) | |
| Waves, Plasma | 485 |
| Waves, Propagation | 487 |
| Waves, Shock | 491 |
| X-Ray and Extreme Ultraviolet Bright Points (<i>see X-Ray Structures</i>) | |
| X-Ray Bursts | 493 |
| X-Ray Bursts, Association with Flares | 495 |
| X-Ray Bursts, Association with Non-Flare Phenomena (<i>see X-Ray Bursts</i>) | |
| X-Ray Bursts, Deka-keV (<i>see X-Ray Bursts</i>) | |
| X-Ray Bursts, Hard | 501 |
| X-Ray Bursts, Non-Thermal (<i>see X-Ray Bursts</i>) | |
| X-Ray Bursts, Soft | 507 |
| X-Ray Bursts, Spectrum | 510 |
| X-Ray Bursts, Theory | 512 |
| X-Ray Bursts, Thermal (<i>see X-Ray Bursts</i>) | |
| X-Ray Emission, Solar (<i>see Emission, X-ray</i>) | |
| X-Ray Emission, Stellar (<i>see Stellar Physics</i>) | |
| X-Ray Structures | 516 |
| Zeeman Effect | 520 |

Absorption, Continuous (*see Spectrum, Continuum*)

Absorption, Particle (*see Energetic Particles*)

Absorption, Radio (*see Radio Emission*)

Abundances

A Systematic Method for the Analysis of High-Resolution Fraunhofer Line Profiles

C. de Jager and L. Neven 1, 27

Solar Abundance Determination from Ultraviolet Emission Lines

Andrea K. Dupree and Leo Goldberg 1, 229

Center-to-Limb Analysis of the Solar Oxygen Lines

Edith A. Müller, Bodo Baschek, and Hartmut Holweger 3, 125

The Forbidden Lines of O I in the Photospheric Spectrum

E. A. Mallia 3, 505

The Relative Abundance of Silicon and Iron in the Solar Corona

Carole Jordan and S. R. Pottasch 4, 104

Photoelectric Measurements of the Green Coronal Line during the Eclipse of November 12, 1966

J. McKim Malville and Edward J. Schmahl 4, 224

Solar Abundances of Lithium, Beryllium and Boron

Nicolas Grevesse 5, 159

The Abundance of Chlorine in the Sun

D. L. Lambert and E. A. Mallia 5, 181

A New Method for the Analysis of Equivalent Widths and Its Application to Solar Photospheric Oxygen

Richard C. Altrock 5, 260

Forbidden Lines of Fe II in the Photospheric Spectrum

D. Emerson and E. A. Mallia 5, 303

The Stages of Ionization of Oxygen and Helium in the Solar Wind

Ben-Zion Kozlovsky 5, 410

Forbidden Sulfur I Lines in the Solar Spectrum

J. P. Swings, D. L. Lambert, and N. Grevesse 6, 3

Abundances of Heavy Elements in the Sun

Nicolas Grevesse 6, 381

The Energy Distribution in the Solar EUV Spectrum and Abundance of Elements in the Solar Atmosphere

G. M. Nikolsky 6, 399

Forbidden Lines of Ca II in the Photospheric Spectrum

D. L. Lambert, E. A. Mallia, and B. Warner 7, 11

Molecules in the Solar Photosphere

M. C. Pande, V. P. Gaur, and B. M. Tripathi 7, 17

A Study of the Composition of the Lower Solar Corona

M. P. Nakada 7, 302

The Dependence of Facula-Photosphere Contrast in Molecular Lines on Dissociation Energy

M. C. Pande, V. P. Gaur, and B. M. Tripathi 7, 370

Abundances of the Rare Earths in the Sun

N. Grevesse and G. Blanquet 8, 5

Helium Abundance in the Solar Wind

K. W. Ogilvie and T. D. Wilkerson 8, 435

The Photospheric Abundance of Iron

George L. Withbroe 9, 19

Solar Flare Alpha to Proton Ratio Changes Following Interplanetary Disturbances

L. J. Lanzerotti and M. F. Robbins 10, 212

The Forbidden Line [Ca II] $\lambda 7323$ in the Fraunhofer Spectrum

D. L. Lambert and E. A. Mallia 10, 311

The Abundance of Cadmium in the Solar Atmosphere

Øivind Hauge 10, 315

The Isotope Ratio of Europium in the Solar Atmosphere

Øivind Hauge 11, 17

- Solar XUV Limb Brightening Observations. I: The Lithium-Like Ions
George L. Withbroe **11**, 42
- The Diatomic Molecules BH, BN, and BO in Sunspots and the Solar Abundance of Boron
O. Engvold **11**, 183
- Coronagraph Observations of the Coronal Condensation of 4 February 1962
H. Zirin **11**, 497
- The Solar Abundance of Nickel from Photospheric [Ni II] Lines
N. Grevesse and J. P. Swings **13**, 19
- The Search for Rhenium Lines in the Fraunhofer Spectrum
J. W. Swenson **13**, 25
- Comments on a Paper by H. Zirin entitled: 'Coronagraph Observations of the Coronal Condensation of 4 February, 1962'
Donald E. Billings **14**, 168
- A Study of the Composition of the Solar Corona and Solar Wind
M. P. Nakada **14**, 457
- Some Conclusions from the Direct Comparison between the Observations and the Theory of Solar Disk Polarization
Jean-Claude Pecker **15**, 88
- Europium and Lanthanum in Sunspot and in the Undisturbed Photosphere
G. Bachmann, K. Pflug, and J. Staude **15**, 113
- α -Particle Observations in the Solar Wind
V. Formisano, F. Palmiotto, and G. Moreno **15**, 479
- The Acceleration and Propagation of Solar Cosmic Rays as Deduced from the Relative Abundance of Protons to Helium Nuclei
Kunitomo Sakurai **17**, 459
- The Helium-Enriched Interplanetary Plasma from the Proton Flares of August/September, 1966
J. Hirshberg, J. R. Asbridge, and D. E. Robbins **18**, 313
- A Comparison of Solar EUV Intensities and K-Coronameter Measurements
George L. Withbroe **18**, 458
- On the Abundance of Chlorine in the Sun
D. L. Lambert, E. A. Mallia, and J. Brault **19**, 289
- Isotopes of Magnesium in the Solar Atmosphere
R. Boyer, J. C. Henoux, and P. Sotirovski **19**, 330
- The Abundance of Helium in Prominences and in the Chromosphere
Tadashi Hirayama **19**, 384
- On the Abundance of Calcium in the Solar Corona
Richard R. Fisher **19**, 431
- The Influence of the Sunspot Model on the Li-Abundance
G. Stellmacher and E. Wiehr **21**, 96
- Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico
G. M. Nikolsky, R. A. Gulyaev, and K. I. Nikolskaya **21**, 332
- Observations of the Infrared Fe XIII Lines in the Solar Corona of 12 November, 1966
Paul L. Byard and Kenneth E. Kissell **21**, 351
- The Interpretation of Total Line Intensities from Optically Thin Gases. I: A General Method
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker **22**, 307
- The Interpretation of Total Line Intensities from Optically Thin Gases. II: The Coronal Forbidden Lines
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker **22**, 317
- The Interpretation of Total Line Intensities from Optically Thin Gases. III: Application to Coronal Forbidden Line Spectra
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker **22**, 327
- The Solar Abundance of Gold
John E. Ross and Lawrence H. Aller **23**, 13
- The Solar Abundance of Manganese
D. E. Blackwell, B. S. Collins, and A. D. Petford **23**, 292

- On the Abundance of Calcium in the Solar Corona
K. S. de Boer and S. R. Pottasch 23, 406
- Solar Flares and Solar Wind Helium Enrichments: July 1965-July 1967
J. Hirshberg, S. J. Bame, and D. E. Robbins 23, 467
- Coronagraphic Observations of an Enhanced Coronal Region. II: Temperature and Density Structure through the Enhanced Region
Richard R. Fisher 24, 385
- Change of Solar Flare Proton to Alpha Ratios during an Energetic Storm Particle Event
M. Scholer, D. Hovestadt, and B. Häusler 24, 475
- The Solar Abundance of Calcium and Collision Broadening of Ca I- and Ca II-Fraunhofer Lines by Hydrogen
H. Holweger 25, 14
- The Solar Abundance of Silver
John E. Ross and Lawrence H. Aller 25, 30
- Thallium in the Solar Atmosphere
D. L. Lambert, E. A. Mallia, and G. Smith 26, 250
- Isotopes of Rubidium in the Sun
Øivind Hauge 26, 263
- A Search for the Solar Sr 87 Content and the Solar Rb/Sr Ratio
Øivind Hauge 26, 276
- Coronal Abundance of Elements and a Model of the Quiet Sun from Radio Observations
Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci 26, 343
- Solar Isotopic Composition and Abundance of Europium
Øivind Hauge 27, 286
- The Solar Manganese Abundance
Thomas E. Margrave, Jr. 27, 294
- A Proposed Correction to the Solar Abundances of Carbon and Oxygen Utilizing New and Accurate Theoretical Forbidden Transition Probabilities
Cleanthis A. Nicolaidis and Oktay Sinanoğlu 29, 17
- Microturbulence and the Effect of Departures from LTE on Photospheric Iron Lines
H. Holweger 30, 35
- Variations of α -Particle Abundance in the Solar Wind
G. Moreno and F. Palmiotto 30, 207
- The Solar Abundance of Thorium and Lead
Ø. Hauge and H. Sørli 30, 301
- Variations of the Relative Abundances of He, (C, N, O) and Fe-Group Nuclei in Solar Cosmic Rays and Their Relationship to Solar Particle Acceleration
D. L. Bertsch, S. Biswas, C. E. Fichtel, C. J. Pellerin, and D. V. Reames 31, 247
- Solar Abundances of Light Nuclei and Mixing of the Sun
Peter Bochsler and Johannes Geiss 32, 3
- One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. I: The Violet System of CN(0,0)
George H. Mount, Jeffrey L. Linsky, and Richard A. Shine 32, 13
- The Solar Neutral Iron Spectrum II. Profile Synthesis of Representative Fe I Fraunhofer Lines
Bruce W. Lites 32, 283
- On the Possibility of Detecting Abundance Inhomogeneities Resulting from Spallation Reactions in the Solar Photosphere
Lennart Hultqvist 34, 25
- On the Solar Bismuth Content
Øivind Hauge 34, 33
- One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. II: CN(1, 1) on the CN Violet System
George H. Mount and Jeffrey L. Linsky 35, 259
- The Solar Abundance of Germanium
John E. Ross and Lawrence H. Aller 35, 281
- The Solar Abundance of Beryllium
John E. Ross and Lawrence H. Aller 36, 11

The Solar Abundance of Thulium

John E. Ross and Lawrence H. Aller 36, 21

The [Ca II] $\lambda 732390$ Line in the Solar Spectrum

Roger W. Day 36, 25

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. III: CH(0, 0) $\lambda 3144$ of the CH C-X System

George H. Mount and Jeffrey L. Linsky 36, 287

Abundance Differences in Solar Wind Double Streams

J. R. Asbridge, S. J. Bame, and W. C. Feldman 37, 451

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. I: Results for Ti I

E. Biémont 38, 15

Determinations of Atomic Lifetimes for the Rare Earth Ions: Pr II, Tm II, Lu II, Ce III

T. Andersen and G. Sørensen 38, 343

The Photospheric Barium Spectrum: Solar Abundance and Collision Broadening of Ba II Lines by Hydrogen

Hartmut Holweger and Edith A. Müller 39, 19

Absolute Abundances and Distribution of Material versus Density and Temperature in a Coronal Condensation

Françoise Magnant-Crifo 39, 141

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron Group and Their Solar Photospheric Abundance. II: Results for Sc I

E. Biémont 39, 305

Solar Cosmic Ray Composition above 10 Me V/Nucleon and Its Energy Dependence in the 4 August 1972 Event

D. L. Bertsch, S. Biswas, and D. V. Reames 39, 479

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. IV: Non-LTE Treatment of the CN Violet System

George H. Mount and Jeffrey L. Linsky 41, 17

The Solar Lithium Abundance. I: Observations of the Solar Lithium Feature at $\lambda 6707.8$ Å

James W. Brault and Edith A. Müller 41, 43

The Solar Lithium Abundance. II: Synthetic Analysis of the Solar Lithium Feature at $\lambda 6707.8$ Å

Edith A. Müller, Eric Peytremann, and Ramiro de la Reza 41, 53

The Solar Niobium Abundance

Ö. Hauge and Nahed H. Youssef 41, 67

Heavy Solar Cosmic Rays in the January 25, 1971 Solar Flare

Charles J. Pellerin, Jr. 41, 449

Isotopes of Samarium in the Sun

A. Ekeland and Ø. Hauge 42, 17

The Analysis of a High Resolution X-Ray Spectrum of a Solar Active Region

John H. Parkinson 42, 183

Abundance of Fe Relative to H at 1.5 Solar Radii

M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas 42, 487

Forbidden Ca II in the Sun Unmasked by Way of Venus

Ronald A. Schorn, Andrew T. Young, and Edwin S. Barker 43, 9

The Potassium Abundance in the Solar Photosphere

Ramiro de la Reza and Edith A. Müller 43, 15

Solar Wind Heavy Ion Abundances

S. J. Bame, J. R. Asbridge, W. C. Feldman, M. D. Montgomery, and P. D. Kearney 43, 463

Lifetimes of Some Excited States in the Rare Earths: La II, Ce II, Pr II, Nd II, Sm II, Yb I, Yb II, and Lu II

T. Andersen, O. Poulsen, P. S. Ramanujam, and A. Petrakiev Petkov 44, 257

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. III: Results for Mn I

Emile Biémont 44, 269

The Solar Photospheric Abundance of Iron

E. Biémont and N. Grevesse 45, 59

The Analysis of XUV Emission Lines

George L. Withbroe 45, 301

- The Prominence Radiation Theory
N. A. Yakovkin and M. Yu. Zeldina 45, 319
- Studies of the Prominence-Corona Transition Zone from Rocket Ultraviolet Spectra of the March 1970 Eclipse
C. Y. Yang, R. W. Nicholls, and F. J. Morgan 45, 351
- The Interpretation of Simultaneous Soft X-Ray Spectroscopic and Imaging Observations of an Active Region
J. M. Davis, M. Gerassimenko, A. S. Krieger, and G. S. Vaiana 45, 393
- The Solar Hafnium Abundance
T. Andersen, P. Petersen, and Ö. Hauge 49, 211
- Observation of Temporal and Spatial Variations in the Fe/O Charge Composition of the Solar Particle Event of 4 July, 1974
T. P. Armstrong, S. M. Krimigis, D. Hovestadt, B. Klecker, and G. Gloeckler 49, 395
- The Solar Abundance of Titanium
R. S. Ellis 50, 261
- The Production of Lithium in the Solar Chromosphere and Photosphere during White Light Flares
Lennart Hultqvist 52, 101
- On Coronal Fe Abundances and Temperatures from XUV Emission Lines
M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas 53, 435
- Enhancement of Solar Heavy Nuclei at High Energies in the 4 July 1974 Event
D. L. Bertsch and D. V. Reames 55, 491
- Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. IV: Results for V I, Co I and Summary
E. Biémont 56, 79
- The Center-to-Limb Behavior of Ca I $\lambda 6573$ and [Ca II] $\lambda 7324$
T. R. Ayres and L. Testerman 60, 19
- Solar Abundance of Praseodymium
Emile Biémont, Nicolas Grevesse, and Øivind Hauge 61, 17
- On the Abundance of Deuterium in the Solar Atmosphere
V. A. Krat and L. M. Pravdjuk 61, 279
- The Lack of Chemical Separation during the Diffusion of Gas into Solar Magnetic Tubes
R. G. Giovanelli 62, 51
- Iron K α -Fluorescence in Solar Flares: A Probe of the Photosphere Iron Abundance
Taeil Bai 62, 113 Erratum 64, 417
- Solar Wind Heavy Ions from Flare-Heated Coronal Plasma
S. J. Bame, J. R. Asbridge, W. C. Feldman, E. E. Fenimore, and J. T. Gosling 62, 179
- Dynamics and Abundances of Ions in Coronal Holes
G. Borrini and G. Noci 64, 367
- f*-Values for Tb II and a Search for Terbium in the Solar Photosphere
E. Biémont, G. Roland, and L. Delbouille 71, 223
- The Solar Abundance of Tungsten
Hartmut Holweger and Klaus Werner 81, 3
- A New Method for Determining the Helium Abundance in the Solar Atmosphere (*Invited Review*)
G. R. Isaak 82, 205
- Adiabatic Oscillations of Solar Models with a High-Z Convective Zone
S. V. Vorontsov and K. I. Marchenkov 82, 215
- Helium Abundance Variations in the Solar Wind
G. Borrini, J. T. Gosling, S. J. Bame, and W. C. Feldman 83, 367
- Determination of Solar Wind Elemental Abundances from M/Q Observations during Three Period in 1980
S. Kunz, P. Bochsler, J. Geiss, K. W. Ogilvie, and M. A. Coplan 88, 359
- Energy and Nuclear Charge Dependence of Abundance Enhancements of Solar Cosmic Ray Heavy Ions in Three Large Solar Events
S. Biswas, N. Durgaprasad, and M. N. Vahia 89, 163
- Comparison of Coronal Emission-Line Structure and Polarization
Charles W. Querfeld and Raymond N. Smartt 91, 299
- Determination of the Total Amount of Hydrogen Atoms in a Quiescent Prominence
M. Sh. Gigolashvili 93, 317

Interpretation of ^3He Abundance Variations in the Solar Wind

M. A. Coplan, K. W. Ogilvie, P. Bochsler, and J. Geiss **93**, 415

Present Problems of the Solar Interior (*Invited Review Paper*)

Ian W. Roxburgh **100**, 21

Abundances, Anomalies (*see Abundances*)

Abundances, Isotopes (*see Abundances*)

Acceleration, Mechanisms (*see Energetic Particles, Acceleration*)

Active Longitudes

On Long-Term Forecasts of Proton Flares

Zdeněk Švestka **4**, 18

'Bartels' Active Longitudes', Sector Boundaries and Flare Activity

V. Bumba and V. N. Obridko **6**, 104

Large-Scale Mutual Relations of Spot Groups in Proton Complex

L. Křivský and V. Obridko **6**, 418

Solar Activity and Recurrences in Magnetic-Field Distribution

V. Bumba and R. Howard **7**, 28

On the Problem of Active Longitudes of Sunspots and Flares

Ju. I. Vitinskij **7**, 210

Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461

(*Invited Review Paper*)

Z. Švestka and P. Simon **10**, 3

The Longitudinal Distribution of the Green Coronal Activity

J. Šýkora **18**, 72

Longitude Distribution of Solar Flares

P. C. W. Fung, P. A. Sturrock, P. Switzer, and G. Van Hoven **18**, 90

Complexes of Activity of the Solar Cycle and Very Large Scale Convection

Hirokazu Yoshimura **18**, 417

A Series of Related Active Regions during January 14-June 1, 1969

Stephen W. Prata **19**, 92

Planetary Influences on the Large-Scale Distribution of Solar Activity

P. Ambrož **19**, 480

The Solar Longitude Dependence of Proton Event Delay Time

E. Barouch, M. Gros, and P. Masse **19**, 483

Effects of Active Solar Regions on the Galactic Cosmic Ray Intensity

E. Antonucci, G. Cini Castagnoli, and M. A. Doderio **20**, 497

Periodicities in the Longitude Distribution of Sunspots

W. Stanek **27**, 89

Comments on the Course of Solar Activity during the Declining Phase of Solar Cycle 20 (1970-74)

H. W. Dodson and E. R. Hedeman **42**, 121

Recurrence of Solar Activity: Evidence for Active Longitudes

Richard S. Bogart **76**, 155

Preferred Longitudes of Sunspot Groups and High-Speed Solar Wind Streams: Evidence for a 'Solar Memory'

Horst Balthasar and Manfred Schussler **87**, 23

Longitudinal Distribution of the Hard X-Ray Bursts on the Sun

V. K. Verma and M. C. Pande **99**, 285

Active Regions

On Arch-Filament Systems in Spotgroups

A. Bruzek **2**, 451

Cape Lyot H α -Heliograph Results. An Analysis of Flare Activity 1958-65

John H. Reid **5**, 207

Electrons and Protons in Long-Lived Streams of Energetic Solar Particles

K. A. Anderson **6**, 111

Large-Scale Mutual Relations of Spot Groups in Proton Complex

L. Křivský and V. Obridko **6**, 418

- Solar Activity and Recurrences in Magnetic-Field Distribution
V. Bumba and R. Howard 7, 28
- On the Problem of Active Longitudes of Sunspots and Flares
Ju. I. Vitinskij 7, 210
- Radio Observation of the Solar Eclipse of May 20, 1966
F. G. Drago and G. G. Noci 7, 276
- Solar Circumstances at the Time of the Cosmic Ray Increase on January 28, 1967
Helen W. Dodson and E. Ruth Hedeman 9, 278
- Spectroheliograms in the Mg II Line at 2795.5 Å
Kerstin Fredga 9, 358
- Possible Connection between N-S and E-W Solar Asymmetries
G. Godoli and G. Poletto 10, 494
- Solar Coronal Streamers. I: Observed Locations, General Evolution, and Classification
J. David Bohlin 12, 240
- Note on the Dependence of the Duration of the Zonal Spot Activity on the Solar Rotation
W. Gleissberg 14, 166
- Isodensitometric Analysis of Flare on 1966, March 20
F. Mazzucconi and A. Righini 17, 174
- Electron Densities Derived from Line Intensity Ratios: Beryllium Isoelectronic Sequence
Richard H. Munro, A. K. Dupree, and George L. Withbroe 19, 347
- EUV and Soft X-Ray Images of the Sun on March 11th, 1971
H. Bräuninger, H. J. Einighammer, J. V. Feitzinger, H. H. Fink, D. H. Höhn, H. Koops, G. Krämer, U. Mayer, G. Möllenstedt, and M. Mozer 20, 81
- Effects of Active Solar Regions on the Galactic Cosmic Ray Intensity
E. Antonucci, G. Cini Castagnoli, and M. A. Doderio 20, 497
- A Comparison between Mg II and Ca II Spectroheliograms
Kerstin Fredga 21, 60
- On Time Variations of the Solar Differential Rotation Law and Asymmetry of the Global Distribution of the Solar Activity
Hirokazu Yoshimura 22, 20
- Fine Structure of Solar Magnetic Fields
Harold Zirin 22, 34
- Results from OSO-IV: The Long Term Behavior of X-Ray Emitting Regions
A. Krieger, F. Paolini, G. S. Vaiana, and D. Webb 22, 150
- Photographs of the Sun in the XUV-Region
M. Burger and J. H. Dijkstra 24, 395
- On the Random Nature of the Eruption of Magnetic Flux at the Solar Surface
Robert Howard and Stephen J. Edberg 28, 73
- The Height of 9.1 cm Solar Emission from Latitude Shift
W. Graf and R. N. Bracewell 28, 425
- Studies of the Solar Chromosphere from Millimetre to Sub-Millimetre Observations. I: Isophotometric Mapping
J. E. Beckman and C. D. Clark 29, 25
- Short Periodicities in Solar Activity
K. Ramanuja Rao 29, 47
- X-Rays Spectroheliograms in Lines of Mg XI and Mg XII
C. Bonnelle, C. Senemaud, G. Senemaud, G. Chambre, M. Guionnet, J. C. Henoux, and R. Michard 29, 341
- The East-West Asymmetry in the Number of Spot-Groups in Relation to Their Classification
Reinhart Bartsch 30, 93
- The Topological Association of H α Structures and Magnetic Fields
Y. Nakagawa, M. A. Raadu, and J. W. Harvey 30, 421
- Polarization of Solar Active Regions at 3.5 Millimeter Wavelength
M. R. Kundu and T. Gergely 31, 461
- Ephemeral Active Regions
Karen L. Harvey and Sara F. Martin 32, 389

Lifetimes of Enhanced Chromospheric Network Features near Active Regions

Stephen W. Prata 33, 119

On the Characteristics of the Basic Framework of Solar Active Regions and the Magnetohydrodynamical Structure of the Convection Zone

Hirokazu Yoshimura 33, 131

A Preliminary Study of the Extreme Ultraviolet Spectroheliograms from Skylab

R. Tousey, J.-D. F. Bartoe, J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, N. R. Sheeley, Jr., R. J. Schumacher, and M. E. VanHoosier 33, 265

Fine Structure of a Solar Active Region at 3.7 and 11.1 cm Wavelengths

M. R. Kundu, R. H. Becker, and T. Velusamy 34, 185

A Correlation between Time-Overlapping Solar Flares and the Release of Energetic Particles

G. M. Simnett 34, 377

On the Nature of Plasma Arcs in Solar Active Regions

Ryszard Gajewski 35, 385

Bright Photospheric Areas Surrounding Sunspot Groups at 5700 Å

Richard A. Miller 36, 91

Fine Structure of a Very Bright Active Region at a Wavelength of 2.8 cm

M. Felli, P. Pampaloni, and G. Tofani 37, 395

Studies of K Line Filtergrams

H. Zirin 38, 91

The Fine-Structure of the Solar Atmosphere in the Far Ultraviolet

Guenther E. Brueckner and John-David F. Bartoe 38, 133

Observations of Very Small Soft X-Ray Flares

W. M. Glencross, E. B. Dorling, and J. R. H. Herring 38, 183

A Comparison of Three Solar Active Regions Based on Their Soft X-Ray Line Spectra

D. H. Brabban 38, 449

Ephemeral Active Regions in 1970 and 1973

K. L. Harvey, J. W. Harvey, and S. F. Martin 40, 87

The Analysis of a High Resolution X-Ray Spectrum of a Solar Active Region

John H. Parkinson 42, 183

The X-Ray Line and Continuum Emission from a Solar Active Region

P. B. Landecker and R. S. Wolff 42, 209

Crystal Spectrometer Studies of the Sun Employing a Rotation Modulation Collimator

D. H. Brabban, W. M. Glencross, and F. D. Rosenberg 42, 355

On the Nature of Some Active Regions in the Microwave Range

M. Felli, G. Tofani, E. Fürst, and W. Hirth 42, 377

Observation of Possible Fe XVII $2p^53p(^1S_0)$ - $2p^53s(^1P_1, ^3P_1)$ Transitions in Spectra of a Solar Active Region and Flare

S. O. Kastner, W. M. Neupert, and M. Swartz 43, 111

The Temperature Structure and Pressure Balance of Magnetic Loops in Active Regions

P. Foukal 43, 327

Energy Balance in a Magnetically Confined Coronal Structure Observed by OSO-7

W. M. Neupert, Y. Nakagawa, and David M. Rust 43, 359

The Coronal Structure of Active Regions

M. Landini, B. C. Monsignori Fossi, A. Krieger, and G. S. Vaiana 44, 69

A Comparison of Coronal X-Ray Structures of Active Regions with Magnetic Fields Computed from Photospheric Observations

G. Poletto, G. S. Vaiana, M. V. Zombeck, A. S. Krieger, and A. F. Timothy 44, 83

The Interpretation of Simultaneous Soft X-Ray Spectroscopic and Imaging Observations of an Active Region

J. M. Davis, M. Gerassimenko, A. S. Krieger, and G. S. Vaiana 45, 393

The Spectrum of Ni XIX in the Solar Corona

R. J. Hutcheon, J. P. Pye, and K. D. Evans 46, 171

Evidence for Magnetic Energy Storage in Coronal Active Regions

A. S. Krieger, L. D. de Feiter, and G. S. Vaiana 47, 117

Preflare X-Ray Morphology of Active Regions Observed with the AS&E Telescope on Skylab

S. W. Kahler and B. J. Buratti 47, 157

- Energy Released by the Interaction of Coronal Magnetic Fields
N. R. Sheeley, Jr. **47**, 173
- Prospectus for the Solar Maximum Year (*Invited Report*)
H. Zirin and K. Tanaka **47**, 385
- One Dimensional Aperture Synthesis Observations at 2.8 cm of the Brightness Distribution over the Solar Equator
Ambretta Donati Falchi, Marcello Felli, and Gianni Tofani **48**, 59
- On the Occurrence of Sympathetic Flares
L. Fritzová-Švestková, R. C. Chase, and Z. Švestka **48**, 275
- Observation of Spatial and Temporal Variations in X-Ray Bright Point Emergence Patterns
Leon Golub, Allen S. Krieger, and Guiseppe S. Vaiana **50**, 311
- Magnetic and Microwave Structure in Solar Active Regions
Marcello Felli, Giannina Poletto, and Gianni Tofani **51**, 65
- Physics of an Active Region Loop System
Randolph H. Levine and George L. Withbroe **51**, 83
- Transequatorial Loops Interconnecting McMath Regions 12472 and 12474
Z. Švestka, A. S. Krieger, R. C. Chase, and R. Howard **52**, 69
- Computer Solutions for Studying Correlations between Solar Magnetic Fields and Skylab X-Ray Observations
D. Teuber, E. Tandberg-Hanssen, and M. J. Hagyard **53**, 97
- Magnetic Properties of X-Ray Bright Points
L. Golub, A. S. Krieger, G. S. Vaiana, and J. W. Harvey **53**, 111
- Comments on Salyut-4 Observations of Active Regions on the Sun
A. B. Severny **53**, 285
- Development of a Complex of Activity in the Solar Corona
Robert Howard and Zdeněk Švestka **54**, 65 *Erratum* 56, 471
- Soft X-Ray Observations of Large-Scale Coronal Active Region Brightenings
David M. Rust and David F. Webb **54**, 403
- Early Evolution of an X-Ray Emitting Solar Active Region
C. J. Wolfson, L. W. Acton, J. W. Leibacher, and D. T. Roethig **55**, 181
- Open Magnetic Fields in Active Regions
Zdeněk Švestka, Graig V. Solodyna, Robert Howard, and Randolph H. Levine **55**, 359
- The Gross Energy Balance of Solar Active Regions
Kenton D. Evans, J. P. Pye, R. J. Hutcheon, M. Gerassimenko, A. S. Krieger, J. M. Davis, and J. F. Vesecky **55**, 387
- The Development and Structure of Bright Active Regions at 2.8 cm
A. Donati Falchi, M. Felli, P. Pampaloni, and G. Tofani **56**, 335
- Observations of the Mg I and II Resonance Lines in an Active Region
Marc S. Allen and Howard C. McAllister **60**, 251
- Ephemeral Active Regions during Solar Minimum
Sara F. Martin and Karen L. Harvey **64**, 93
- The Height Structure of Solar Active Regions at X-Ray Wavelengths as Deduced from OSO-8 Limb Crossing Observations
J. M. Mosher **64**, 109
- On the Rotation Rates of Sunspot Groups
G. Godoli and F. Mazzucconi **64**, 247
- Characteristics of Plage Fragments with Photospheric Network Properties
D. J. Nauer, R. G. Teske, and G. E. Elste **67**, 23
- Morphology and Spatial Distribution of XUV and X-Ray Emissions in an Active Region Observed from Skylab
Chung-Chieh Cheng, J. B. Smith, Jr., and E. Tandberg-Hanssen **67**, 259
- Coronal Loops and Active Region Structure
D. F. Webb and H. Zirin **69**, 99
- The Size Dependence of Contrasts and Numbers of Small Magnetic Flux Tubes in an Active Region
H. C. Spruit and C. Zwaan **70**, 207
- Some Results Concerning the Automatic Photometry of Photographic Chromospheric Images
L. Azzarelli, P. L. Casalini, S. Cerri, R. Falciani, G. Roberti, and L. A. Smaldone **71**, 247

- Preliminary Observation of Missing Energy Flux of Sunspot
Tadashi Hirayama and Tomizo Okamoto 73, 37
- Sunspot Populations and Their Relation with the Solar Cycle
J. I. García de la Rosa 74, 117
- The XUV Structure of Solar Active Regions
Kenneth P. Dere 75, 189
- Extreme Ultraviolet Spectra of Solar Active Regions and Their Analysis
Kenneth P. Dere 77, 77
- Progressive Brightenings Observed in the Wing of H α Line
I. Kawaguchi, H. Kurokawa, Y. Funakoshi, and Y. Nakai 78, 101
- On the Latitude Drift of Sunspot Groups and Solar Rotation
Jaakko Tuominen and Juhani Kyröläinen 79, 161
- Open Magnetic Fields and the Solar Cycle. I: Photospheric Sources of Open Magnetic Flux
Randolph H. Levine 79, 203
- Multiple Wavelength Observations of a Solar Active Region
Franca Chiuderi-Drago, Rino Bandiera, Roberto Falciani, Ester Antonucci, Kenneth R. Lang, Robert F. Willson, Kioto Shibasaki, and Cornelis Slottje 80, 71
- Solar Irradiance Modulation by Active Regions during 1980
Sabatino Sofia, Ludwig Oster, and Kenneth Schatten 80, 87
- Active Region Magnetic Fields Inferred from Simultaneous VLA Microwave Maps, X-Ray Spectroheliograms, and Magnetograms
E. J. Schmahl, M. R. Kundu, K. T. Strong, R. D. Bentley, J. B. Smith, Jr., and K. R. Krall 80, 233
- EUV Arcades: Signatures of Filament Instability
E. J. Schmahl, Z. Mouradian, M.-J. Martres, and I. Soru-Escaut 81, 91
- On Possible Correlations in the Photospheric Magnetic Field
Steven G. Wallenhorst 83, 191
- Naked Sunspots
Margaret Liggett and Harold Zirin 84, 3
- High-Resolution Photography of the Solar Chromosphere. XVI: H α Contrast Profiles of Active Region Loops
R. J. Bray and R. E. Loughhead 85, 131
- X-Ray and Microwave Observations of Active Regions
D. F. Webb, J. M. Davis, M. R. Kundu, and T. Velusamy 85, 267
- Pre- and Post-Flare X-Ray Variations in Active Regions
Zdeněk Švestka and Aert Schadee 86, 267
- Line Profile Analysis of an Active Region Corona Observed Successively at the East and West Limb
Tokio Tsubaki 87, 57
- SID Flares and Sunspot Morphology
Anthony Achong, Philip A. Stahl, and Cuthbert Nyack 88, 137 *Errata* 90, 203
- Are the Small Active Regions Related to the Decay of the Larger Ones?
J. I. Garcia de la Rosa 89, 51
- Long-Term Quasi-Periodic Oscillations of EUV-Flux on the Sun
E. V. Ivanov 89, 261
- Enhanced X-Ray Emission above 3.5 keV in Active Regions in the Absence of Flares
Aert Schadee, Cornelis de Jager, and Zdeněk Švestka 89, 287
- On the Relation between Chromospheric and Photospheric Fine Structure in an Active Region
R. Kitai and R. Muller 90, 303
- A Statistical Study of Active Regions 1967-1981
Frances Tang, Robert Howard, and John M. Adkins 91, 75
- Structure and Polarization of Active Region Microwave Emission
M. R. Kundu and C. E. Alissandrakis 94, 249
- On Heating of Solar Active Regions by Magnetic Energy Dissipation
Mukul Kumar and Udit Narain 95, 69
- Impulsive Phenomena in a Small Active Region
George L. Withbroe, Shadia R. Habbal, and Robert Ronan 95, 297
- Stereoscopic Determination of the Three-Dimensional Geometry of Coronal Magnetic Loops
Roland Berton and Takashi Sakurai 96, 93

- A New Model for Flux Emergence and the Evolution of Sunspots and the Large-Scale Fields
P. S. McIntosh and P. R. Wilson 97, 59
- Precise Wideband Photometry of Photospheric Faculae with an Emphasis on the Disk Center
Tadashi Hirayama, Shigeo Hamana, and Kazuo Mizugaki 99, 43
- Active Regions, Evolution**
- Detailed Analysis of Flares, Magnetic Fields and Activity in the Sunspot Group of Sept. 13-26, 1963
Harold Zirin and Susan Werner 1, 66
- The Solar Corona above Active Regions: A Comparison of Extreme Ultraviolet Lines with Radio Emission
Werner M. Neupert 2, 294
- On the Development of Magnetic Fields in Active Regions
M. K. V. Bappu, V. M. Grigorjev, and V. E. Stepanov 4, 409
- Étude de la localisation des éruptions dans la structure magnétique évolutive des régions actives solaires
M.-J. Martres, R. Michard, I. Soru-Iscovici, et T. T. Tsap 5, 187
- Influence of a Solar Active Region on the Interplanetary Magnetic Field
Kenneth H. Schatten, Norman F. Ness, and John M. Wilcox 5, 240
- Solar Activity and Recurrences in Magnetic-Field Distribution
V. Bumba and R. Howard 7, 28
- Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461
(*Invited Review Paper*)
Z. Švestka and P. Simon 10, 3
- The Radio-Emission and Ca-Brightness of Two Outstanding Active Regions during Their Lifetime
G. Feix 10, 184
- Quelques effets de l'interaction des centres actifs solaires
M.-J. Martres 11, 258
- The Development and Flaring of an Active Region Exhibiting Unusual Magnetic Structure. II: Active Regions
Peter Foukal 13, 330
- Concerning the Formation of Giant Regular Structures in the Solar Atmosphere
V. Bumba 14, 80
- Active Regions. I: The Occurrence of Solar Flares and the Development of Active Regions
H. Zirin 14, 328
- Active Regions. II: Mount Wilson 16997. A Small Spot with Big Flares
H. Zirin 14, 342
- On Polarimetry in Solar Active Regions. III: Circular Polarization in Different Lines; Development of Magnetic Fields
E. Wiehr 15, 148
- The Emission and Propagation of ~40 keV Solar Flare Electrons. II: The Electron Emission Structure of Large Active Regions
R. P. Lin 15, 453
- Solar Enhancements at 1.2 mm Wavelength
J. E. Beckman and C. D. Clark 16, 87
- X-Ray Observations of Solar Active Regions from OSO-5
J. H. Parkinson and K. A. Pounds 17, 146
- A Series of Related Active Regions during January 14-June 1, 1969
Stephen W. Prata 19, 92
- Soft Solar X-Rays and Solar Activity. V: Relation of the Course of Soft X-Ray Fluctuations to the Course of Solar Activity, 9 March, 1967-18 May, 1968
Richard G. Teske 19, 356
- Chromospheric Absorbing Features Promising the Appearance and the Development of an Active Center
M.-J. Martres and I. Soru-Escout 21, 137
- Fine Structure of Solar Magnetic Fields
Harold Zirin 22, 34
- Results from OSO-IV: The Long Term Behavior of X-Ray Emitting Regions
A. Krieger, F. Paolini, G. S. Vaiana, and D. Webb 22, 150
- Evolution of Solar Magnetic Fields over an 11-Year Period
J. O. Stenflo 23, 307

- On Polarimetry in Solar Active Regions. V: The Magnetic Field before and after a Flare
E. Wiehr **24**, 129
- Flares and Changing Magnetic Fields
David M. Rust **25**, 141
- Solar Bright Points in 3840 Å and H α
Joan Vorpahl and Thomas Pope **25**, 347
- The Magnetic Structure of Arch Filament Systems
Edward N. Frazier **26**, 130
- Polarization Structure of a Solar Flare Region at 9.5 mm Wavelength
M. R. Kundu and T. P. McCullough **27**, 182
- Flares Associated with EFR's (Emerging Flux Regions)
Joan A. Vorpahl **28**, 115
- Time Variations in the X-Ray Emission of Solar Active Regions
J. H. Parkinson **28**, 137
- Solar Active Regions at 9 and 3.5 mm Wavelengths under Disturbed Conditions
M. R. Kundu and Sou-Yang Liu **29**, 409
- The East-West Asymmetry in the Number of Spot-Groups in Relation to Their Classification
Reinhart Bartsch **30**, 93
- The Evolution of Prominences and Their Relationship to Active Centers (*A Review*)
Sara F. Martin **31**, 3
- The Flares of August 1972
Harold Zirin and Katsuo Tanaka **32**, 173
- Relationship between Some Photospheric Motions and the Evolution of Active Centers
M.-J. Martres, I. Soru-Escaut, and J. Rayrole **32**, 365
- Videomagnetograph Studies of Solar Magnetic Fields. II: Field Changes in an Active Region
Stephen A. Schoolman **32**, 379
- Ephemeral Active Regions
Karen L. Harvey and Sara F. Martin **32**, 389
- Chromospheric Activity Associated with Moving Photospheric Magnetic Fields
J.-René Roy and A. G. Michalitsanos **35**, 47
- First Phase of Active Regions and Their Relation to the Chromospheric Network
R. Born **38**, 127
- XUV Observations of Coronal Magnetic Fields
N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. Scherrer, and R. Tousey **40**, 103
- Sunspot Motions, Flares and Type III Bursts in McMath 11482
H. Zirin and B. Lazareff **41**, 425
- Emerging Flux Regions
David L. Glackin **43**, 317
- The Velocity Field Associated with the Birth of Sunspots
Ichiro Kawaguchi and Reizaburo Kitai **46**, 125
- A Study of the Magnetic and Velocity Fields in an Active Region
K. L. Harvey and J. W. Harvey **47**, 233
- Transequatorial Loops Interconnecting McMath Regions 12472 and 12474
Z. Švestka, A. S. Krieger, R. C. Chase, and R. Howard **52**, 69
- The Relation of Flares to 'Newly Emerging Flux' and 'Evolving Magnetic Structures'
M. J. Martres and I. Soru-Escaut **53**, 225
- Development of a Complex of Activity in the Solar Corona
Robert Howard and Zdeněk Švestka **54**, 65 *Erratum 56*, 471
- Early Evolution of an X-Ray Emitting Solar Active Region
C. J. Wolfson, L. W. Acton, J. W. Leibacher, and D. T. Roethig **55**, 181
- The Relationship between Solar Activity and Coronal Hole Evolution
J. T. Nolte, J. M. Davis, M. Gerassimenko, A. S. Krieger, C. V. Solodyna, and L. Golub **60**, 143
- On the Appearance of Magnetic Flux in the Solar Photosphere
Cornelis Zwaan **60**, 213
- The Birthplaces of Active Regions and X-Ray Bright Points
R. Howard, L. Fritzová-Švestková, and Z. Švestka **63**, 105

- Rapid Changes in the Fine Structure of a Coronal 'Bright Point' and a Small Coronal 'Active Region'
N. R. Sheeley, Jr. and L. Golub **63**, 119
- Fine Structure of the S-Component Spectrum of the Solar Radio Emission in the Frequency Range 5.0-7.0 GHz
N. S. Kaverin, M. M. Kobrin, A. I. Korshunov, and V. V. Shushunov **63**, 379
- Motions in the Solar Atmosphere Associated with the White Light Flare of 11 July 1978
L. Dezső, Lidia Gesztelyi, L. Kondás, Ágnes Kovács, and S. Rostás **67**, 317
- Coronal Loops and Active Region Structure
D. F. Webb and H. Zirin **69**, 99
- Transient Brightenings of Interconnecting Loops. II: Dynamics of the Brightened Loops
Zdeněk Švestka and Robert Howard **71**, 349
- On the Dissolution of Sunspot Groups
Steven G. Wallenhorst and Robert Howard **76**, 203
- Vector Magnetic Field Evolution, Energy Storage, and Associated Photospheric Velocity Shear within a Flare-Productive Active Region
K. R. Krall, J. B. Smith, Jr., M. J. Hagyard, E. A. West, and N. P. Cummings **79**, 59
- On the Disappearance of a Small Sunspot Group
Steven G. Wallenhorst and Kenneth P. Topka **81**, 33
- Analysis of the High-Resolution Mg XI X-Ray Spectra. IV: Derivation of the Plasma Densities Close to the 'Low-Density' Limit
G. Bromboszcz, M. Siarkowski, J. Sylwester, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Urmov, and I. A. Zhitnik **83**, 243
- Naked Sunspots
Margaret Liggett and Harold Zirin **84**, 3
- On the Origin of δ Spots
Frances Tang **89**, 43
- Are the Small Active Regions Related to the Decay of the Larger Ones?
J. I. García de la Rosa **89**, 51
- Long-Term Quasi-Periodic Oscillations of EUV-Flux on the Sun
E. V. Ivanov **89**, 261
- The Observation of Intrinsically Different Emergences for Large and Small Active Regions
J. I. García de la Rosa **92**, 161
- Dynamic Evolution of Recurrent Mass Ejections Observed in $H\alpha$ and C IV Lines
B. Schmieder, P. Mein, M. J. Martres, and E. Tandberg-Hanssen **94**, 133
- Morphological Evolution of an Emerging Flux Region
J. J. Brants and J. C. M. Steenbeek **96**, 229
- Activity of Sunspots and Solar Constant Variations during 1980
Judit Pap **97**, 21
- Emerging Flux in Active Regions
Margaret Liggett and Harold Zirin **97**, 51
- A New Model for Flux Emergence and the Evolution of Sunspots and the Large-Scale Fields
P. S. McIntosh and P. R. Wilson **97**, 59
- High-Resolution Spectroscopy of Active Regions. 3: Relations between the Intensity, Velocity, and Magnetic Structure in an Emerging Flux Region
J. J. Brants **98**, 197
- The Emergence of Magnetic Flux (*Invited Review Paper*)
Cornelis Zwaan **100**, 397
- Active Regions, Magnetic Field**
- Reconnection of Magnetic Field of Active Regions by the Interaction of Their Extensions in Interplanetary Space
S. Gopasyuk and L. Křivský **1**, 145 *Corrigendum 1*, 504
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. I: Observational Technique, Properties of Magnetic Knots
J. M. Beckers and E. H. Schröter **4**, 142
- On the Development of Magnetic Fields in Active Regions
M. K. V. Bappu, V. M. Grigorjev, and V. E. Stepanov **4**, 409
- Étude de la localisation des éruptions dans la structure magnétique évolutive des régions actives solaires
M.-J. Martres, R. Michard, I. Soru-Iscovici, et T. T. Tsap **5**, 187

Magnetic Knots near a Sunspot

V. M. Grigorjev **6**, 67

Solar Activity and Recurrences in Magnetic-Field Distribution

V. Bumba and R. Howard **7**, 28

The Vectormagnetograph of the Fraunhofer Institut

Franz-Ludwig Deubner and R. Liedler **7**, 87

The Emission of Solar X-Rays in the 0.5-3 Å Wavelength Range and Its Relation to the Magnetic Configuration of Active Centers

G. Chambe **8**, 369

On Polarimetry in Solar Active Regions. II: Selection of Lines; Interpretation of Polarimetric Data

E. Wiehr **11**, 399

The Development and Flaring of an Active Region Exhibiting Unusual Magnetic Structure. II: Active Regions

Peter Foukal **13**, 330

Variations in Solar Emission at 3.3 mm Wavelength and Their Relation to Flares

Earle B. Mayfield, John Higman, and Clifton Samson **13**, 372

Active Regions. I: The Occurrence of Solar Flares and the Development of Active Regions

H. Zirin **14**, 328

Active Regions. II: Mount Wilson 16997. A Small Spot with Big Flares

H. Zirin **14**, 342

On Polarimetry in Solar Active Regions. III: Circular Polarization in Different Lines; Development of Magnetic Fields

E. Wiehr **15**, 148

Fine-Scan Velocity and Magnetic-Field Measurements in Solar Active Regions

A. Bhatnagar **16**, 40

On the Topology of Filaments and Chromospheric Fibrils near Sunspots

Y. Nakagawa, M. A. Raadu, D. E. Billings, and D. McNamara **19**, 72

A Series of Related Active Regions during January 14-June 1, 1969

Stephen W. Prata **19**, 92

Wave Propagation in the Warm Plasma and the Spectrum of the Solar Radio Bursts

L. Mollwo **19**, 128

The Topology of Force-Free Magnetic Field near Bipolar Sunspots

M. A. Raadu and Y. Nakagawa **20**, 64

H α Fine Structure and the Chromospheric Field

Peter Foukal **20**, 298

A Note on Chromospheric Fine Structure at Active Region Polarity Boundaries

Stephen W. Prata **20**, 310

Chromospheric Absorbing Features Promising the Appearance and the Development of an Active Center

M.-J. Martres and I. Soru-Escout **21**, 137

Fine Structure of Solar Magnetic Fields

Harold Zirin **22**, 34

Note on the Characteristics of Sunspot Groups which Produce Solar Proton Flares

Kunitomo Sakurai **23**, 142

On Polarimetry in Solar Active Regions. V: The Magnetic Field before and after a Flare

E. Wiehr **24**, 129

Polarization of Solar Active Regions at 9.5 mm Wavelength

M. R. Kundu and T. P. McCullough **24**, 133

Flares and Changing Magnetic Fields

David M. Rust **25**, 141

The Magnetic Structure of Arch Filament Systems

Edward N. Frazier **26**, 130

Large-Scale Photospheric Magnetic Field: The Diffusion of Active Region Fields

Kenneth H. Schatten, Robert B. Leighton, Robert Howard, and John M. Wilcox **26**, 283

Flares, Magnetic Configurations, and Magnetic Energy Release

T. J. Janssens **27**, 149

On the Small-Scale Structure of Solar Magnetic Fields

E. N. Frazier and J. O. Stenflo **27**, 330

- Observations of Moving Magnetic Features near Sunspots
K. Harvey and J. Harvey **28**, 61
- The Magnetic Properties of Solar Surges
J.-René Roy **28**, 95
- Time Variations in the X-Ray Emission of Solar Active Regions
J. H. Parkinson **28**, 137
- The Topological Association of $H\alpha$ Structures and Magnetic Fields
Y. Nakagawa, M. A. Raadu, and J. W. Harvey **30**, 421
- Polarization of Solar Active Regions at 3.5 Millimeter Wavelength
M. R. Kundu and T. Gergely **31**, 461
- The Flares of August 1972
Harold Zirin and Katsuo Tanaka **32**, 173
- Relationship between Some Photospheric Motions and the Evolution of Active Centers
M.-J. Martres, I. Soru-Escut, and J. Rayrole **32**, 365
- Videomagnetograph Studies of Solar Magnetic Fields. II: Field Changes in an Active Region
Stephen A. Schoolman **32**, 379
- Ephemeral Active Regions
Karen L. Harvey and Sara F. Martin **32**, 389
- Force-Free Magnetic Fields and Flares of August 1972
K. Tanaka and Y. Nakagawa **33**, 187
- Analysis of the August 7, 1972 White Light Flare: Changes in the Magnetic and Velocity Fields
David M. Rust **33**, 205
- Chromospheric Activity Associated with Moving Photospheric Magnetic Fields
J.-René Roy and A. G. Michalitsanos **35**, 47
- Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations
K. Kai and K. V. Sheridan **35**, 181
- A Search for the Footpoints of Solar Magnetic Fields
G. W. Simon and J. B. Zirker **35**, 331
- Magnetic Field and Electric Current Structure in the Chromosphere
Dainis Dravins **37**, 323
- Ephemeral Active Regions in 1970 and 1973
K. L. Harvey, J. W. Harvey, and S. F. Martin **40**, 87
- XUV Observations of Coronal Magnetic Fields
N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. Scherrer, and R. Tousey **40**, 103
- Energy Balance in a Magnetically Confined Coronal Structure Observed by OSO-7
W. M. Neupert, Y. Nakagawa, and David M. Rust **43**, 359
- A Comparison of Coronal X-Ray Structures of Active Regions with Magnetic Fields Computed from Photospheric Observations
G. Poletto, G. S. Vaiana, M. V. Zombeck, A. S. Krieger, and A. F. Timothy **44**, 83
- Spectral Distributions of Microwave Bursts
D. A. Guidice and J. P. Castelli **44**, 155
- Spatial Correlation of $H\alpha$ Filaments and Photospheric Velocity
M.-J. Martres, J. Rayrole, and I. Soru-Escut **46**, 137
- Evidence for Opposed Currents in Active Region Loops
Randolph H. Levine **46**, 159
- An Active Role for Magnetic Fields in Solar Flares (*Invited Paper*)
David M. Rust **47**, 21
- Evidence for Magnetic Energy Storage in Coronal Active Regions
A. S. Krieger, L. D. de Feiter, and G. S. Vaiana **47**, 117
- Energy Released by the Interaction of Coronal Magnetic Fields
N. R. Sheeley, Jr. **47**, 173
- Source of the Solar Flare Energy
M. D. Altschuler **47**, 183
- A Realistic Approach to Magnetic Evolution
Edward N. Frazier **47**, 205

- A Study of the Magnetic and Velocity Fields in an Active Region
K. L. Harvey and J. W. Harvey **47**, 233
- Motion of Sunspot Magnetic Fields and Its Relation to Solar Flares
Kunitomo Sakurai **47**, 261
- Pre-Flare Association of Magnetic Fields and Millimeter-Wave Radio Emission
E. B. Mayfield and K. P. White, III **47**, 277
- What Should be Observed on the Sun (*Invited Summary*)
Z. Švestka **47**, 375
- On the Excited States of Magnetic Configurations in Connection with the Characteristic Properties of Sunspots
V. A. Krat and V. A. Osherovitch **50**, 65
- Magnetic Field of the Solar Wind
M. I. Pudovkin and A. D. Chertkov **50**, 213
- Magnetic and Microwave Structure in Solar Active Regions
Marcello Felli, Giannina Poletto, and Gianni Tofani **51**, 65
- Heating and Reconnection of the Emerging Magnetic Flux-Tubes and the Role of the Interchange Instability
Yutaka Uchida and Takashi Sakurai **51**, 413
- The North-South Distribution of Major Solar Flare Events, Sunspot Magnetic Classes and Sunspot Areas (1955-1974)
J.-René Roy **52**, 53
- Transequatorial Loops Interconnecting McMath Regions 12472 and 12474
Z. Švestka, A. S. Krieger, R. C. Chase, and R. Howard **52**, 69
- Magnetic Field and Current Sheets in the Corona above Active Regions
Takashi Sakurai and Yutaka Uchida **52**, 397
- Computer Solutions for Studying Correlations between Solar Magnetic Fields and Skylab X-Ray Observations
D. Teuber, E. Tandberg-Hanssen, and M. J. Hagyard **53**, 97
- Magnetic Properties of X-Ray Bright Points
L. Golub, A. S. Krieger, G. S. Vaiana, and J. W. Harvey **53**, 111
- The Relation of Flares to 'Newly Emerging Flux' and 'Evolving Magnetic Structures'
M. J. Martres and I. Soru-Escut **53**, 225
- Noise Storms and Particular Photospheric Magnetic Structures
C. Zanelli and P. Zlobec **53**, 497
- Development of a Complex of Activity in the Solar Corona
Robert Howard and Zdeněk Švestka **54**, 65 *Erratum 56, 471*
- Open Magnetic Fields in Active Regions
Zdeněk Švestka, Graig V. Solodyna, Robert Howard, and Randolph H. Levine **55**, 359
- Do Changes in Coronal Emission Structure Imply Magnetic Reconnection?
J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. D. Petrasso, Z. Švestka, and D. G. Wentzel **55**, 401
- Extreme Ultraviolet Observations of Coronal Holes. II: Association of Holes with Solar Magnetic Fields and a Model for Their Formation during the Solar Cycle
J. D. Bohlin and N. R. Sheeley, Jr. **56**, 125
- EUV Structure of a Small Flare
Randolph H. Levine **56**, 185
- Coronal Magnetic Fields
G. A. Dulk and D. J. McLean **57**, 279
- Note on the Asymmetry of Bipolar Sunspot Groups
V. A. Krat and V. A. Osherovitch **59**, 43
- The Relationship between Solar Activity and Coronal Hole Evolution
J. T. Nolte, J. M. Davis, M. Gerassimenko, A. S. Krieger, C. V. Solodyna, and L. Golub **60**, 143
- On the Appearance of Magnetic Flux in the Solar Photosphere
Cornelis Zwaan **60**, 213
- Magnetic Flux of Colinear Bipolar Spot Pairs
P. J. Baum, A. Bratenahl, G. Crockett, and G. Kamin **62**, 53
- A Comparison of the Temperature and Emission Measure of X-Ray Active Regions with Coronal Magnetic Fields
J. B. Burl, R. G. Teske, and E. B. Mayfield **63**, 157

- Measurements of the Magnetic Field and the Gradient of Temperature in the Solar Atmosphere above a Flocculus Using Radio Observations
V. M. Bogod and G. B. Gelfreikh 67, 29
- Flux Linkages of Bipolar Sunspot Groups: A Computer Study
P. J. Baum and A. Bratenahl 67, 245
- The Size Dependence of Contrasts and Numbers of Small Magnetic Flux Tubes in an Active Region
H. C. Spruit and C. Zwaan 70, 207
- Magnetic Flux Changes Associated with the Solar Flares of August 1972
E. B. Mayfield and G. A. Chapman 70, 351
- Reversed-Polarity Regions
Frances Tang 75, 179
- Computation of Inner Coronal Magnetic Fields from Longitudinal Field Components on a Spherical Photosphere
G. Elwert, K. Müller, L. Thür, and P. Balz 75, 205
- Model for Flare Loops, Fast Motions, and Opening of Magnetic Field in the Corona
S. I. Syrovatskii 76, 3
- On the Dissolution of Sunspot Groups
Steven G. Wallenhorst and Robert Howard 76, 203
- Magnetic Field Configurations Associated with Polarity Intrusion in a Solar Active Region. I: The Force-Free Fields
B. C. Low 77, 43
- Vector Magnetic Field Evolution, Energy Storage, and Associated Photospheric Velocity Shear within a Flare-Productive Active Region
K. R. Krall, J. B. Smith, Jr., M. J. Hagyard, E. A. West, and N. P. Cummings 79, 59
- Three-Dimensional Structure of Atmospheric Magnetic Fields in Two Active Regions
Ronald G. Giovanelli and Harrison P. Jones 79, 267
- Geometrical Relationship of Flare-Generated Solar Wind Structures to the Magnetic Axes of Bipolar Sunspot Groups Adjacent to Their Originating Solar Flares
K. G. Ivanov, L. V. Evdokimova, and N. V. Mikerina 79, 379
- Multiple Wavelength Observations of a Solar Active Region
Franca Chiuderi-Drago, Rino Bandiera, Roberto Falciani, Ester Antonucci, Kenneth R. Lang, Robert F. Willson, Kioto Shibasaki, and Cornelis Slottje 80, 71
- Active Region Magnetic Fields Inferred from Simultaneous VLA Microwave Maps, X-Ray Spectroheliograms, and Magnetograms
E. J. Schmahl, M. R. Kundu, K. T. Strong, R. D. Bentley, J. B. Smith, Jr., and K. R. Krall 80, 233
- On the Disappearance of a Small Sunspot Group
Steven G. Wallenhorst and Kenneth P. Topka 81, 33
- A Comparison of Different Solar Magnetic Field Extrapolation Procedures
N. Seehafer 81, 69
- A Measurement of the Magnetic Field Direction at the Site of Major Flares
H. Lundstedt 81, 293
- The Theory of Quadrupolar Sunspots and the Active Region of August, 1972
Hai-Shou Yang, Hou-Mei Chang, and J. W. Harvey 84, 139 Errata 92, 391
- X-Ray and Microwave Observations of Active Regions
D. F. Webb, J. M. Davis, M. R. Kundu, and T. Velusamy 85, 267
- Computed Magnetic Field Structure of the Flares Observed by HINOTORI Hard X-Ray Telescope
Takashi Sakurai 86, 339
- Modeling of Energy Buildup for a Flare-Productive Region
S. T. Wu, Y. Q. Hu, K. R. Krall, M. J. Hagyard, and J. B. Smith, Jr. 90, 117
- A Quantitative Study Relating Observed Shear in Photospheric Magnetic Fields to Repeated Flaring
M. J. Hagyard, J. B. Smith, Jr., D. Teuber, and E. A. West 91, 115
- Photospheric Electric Current and Transition Region Brightness within an Active Region
A. D. DeLoach, M. J. Hagyard, D. Rabin, R. L. Moore, J. B. Smith, Jr., E. A. West, and E. Tandberg-Hanssen 91, 235
- Magnetohydrostatic Structures in the Solar Atmosphere
J. P. Melville, A. W. Hood, and E. R. Priest 92, 15

The Observation of Intrinsically Different Emergences for Large and Small Active Regions

J. I. García de la Rosa **92**, 161

SID Flare Production is Independent of Mt. Wilson Magnetic Class

A. Achong and P. A. Stahl **92**, 259

Computation of Solar Magnetic Fields from Photospheric Observations

L. Hannakam, G. Allen Gary, and D. L. Teuber **94**, 219

High-Resolution Spectroscopy of Active Regions. 2: Line-Profile Interpretation, Applied to an Emerging Flux Region

J. J. Brants **95**, 15

Statistical Mechanics of Velocity and Magnetic Fields in Solar Active Regions

V. Krishan **95**, 269

The Correlation of Solar Flare Production with Magnetic Energy in Active Regions

E. B. Mayfield and John K. Lawrence **96**, 293

An Example for Solar Flares Caused by Magnetic Field Non-Equilibrium

N. Seehafer **96**, 307

SID Flare Production and Mt. Wilson Magnetic Class: An Alternative Interpretation

Constance Sawyer, A. Achong, and P. A. Stahl **98**, 193

High-Resolution Spectroscopy of Active Regions. 3: Relations between the Intensity, Velocity, and Magnetic Structure in an Emerging Flux Region

J. J. Brants **98**, 197

The Emergence of Magnetic Flux (*Invited Review Paper*)

Cornelis Zwaan **100**, 397

Active Regions, Models

The Solar Corona above Active Regions: A Comparison of Extreme Ultraviolet Lines with Radio Emission

Werner M. Neupert **2**, 294

Extreme Ultraviolet Observations of Active Regions in the Chromosphere and the Corona

Robert W. Noyes, George L. Withbroe, and Robert P. Kirshner **11**, 388

Further X-Ray Spectra of Solar Active Regions

R. M. Batstone, K. Evans, J. H. Parkinson, and K. A. Pounds **13**, 389

X-Ray Observations of Solar Active Regions from OSO-5

J. H. Parkinson and K. A. Pounds **17**, 146

A Method of Calculating 0-20 Å Solar X-Ray Flux and Its Spectral Distribution Using 9.1 cm Spectroheliograms

P. R. Sengupta **17**, 160

Radio Model of the Transition Layer in Solar Active Regions

Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci **17**, 369

Soft X-Ray Emitting Regions in the Solar Corona

M. Landini and B. C. Monsignori Fossi **17**, 379

An Investigation of the Structure of Coronal Active Regions

J. H. Parkinson **28**, 487

X-Rays Spectroheliograms in Lines of Mg XI and Mg XII

C. Bonnelle, C. Senemaud, G. Senemaud, G. Chambre, M. Guionnet, J. C. Henoux, and R. Michard **29**, 341

On the Source of the Slowly Varying Component at Centimeter and Millimeter Wavelengths

Fred I. Shimabukuro, Gary A. Chapman, Earle B. Mayfield, and Sidney Edelson **30**, 163

Identification and Analysis of Structures in the Corona from X-Ray Photography

G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81

A Comparison of Three Solar Active Regions Based on Their Soft X-Ray Line Spectra

D. H. Brabban **38**, 449

The Analysis of a High Resolution X-Ray Spectrum of a Solar Active Region

John H. Parkinson **42**, 183

EUV Analysis of an Active Region

Nirupama Raghavan and George L. Withbroe **43**, 117

The Temperature Structure and Pressure Balance of Magnetic Loops in Active Regions

P. Foukal **43**, 327

- Energy Balance in a Magnetically Confined Coronal Structure Observed by OSO-7
W. M. Neupert, Y. Nakagawa, and David M. Rust 43, 359
- The Coronal Condensation Observed at the 1973 Eclipse
Hiroki Kurokawa 43, 385
- The Coronal Structure of Active Regions
M. Landini, B. C. Monsignori Fossi, A. Krieger, and G. S. Vaiana 44, 69
- The Analysis of XUV Emission Lines
George L. Withbroe 45, 301
- The Interpretation of Simultaneous Soft X-Ray Spectroscopic and Imaging Observations of an Active Region
J. M. Davis, M. Gerassimenko, A. S. Krieger, and G. S. Vaiana 45, 393
- Physics of an Active Region Loop System
Randolph H. Levine and George L. Withbroe 51, 83
- Heating and Reconnection of the Emerging Magnetic Flux-Tubes and the Role of the Interchange Instability
Yutaka Uchida and Takashi Sakurai 51, 413
- Bifurcation of Force-Free Solar Magnetic Fields: A Numerical Approach
Klaus Jockers 56, 37
- Observational Evidence of Continual Heating in X-Ray Emitting Coronal Loops
M. Gerassimenko, C. V. Solodyna, and J. T. Nolte 57, 103
- Physical Conditions in the Corona for a Bipolar Magnetic Region
Joan A. Vorpahl 57, 297
- Analysis and Interpretation of Soft X-Ray Photographs of Coronal Active Regions Taken with Fresnel Zone Plates. I: Image Analysis
G. Krämer, H. J. Einighammer, G. Elwert, H. Bräuninger, H. H. Fink, and J. Trumper 57, 345
- The Structure of Coronal Loops
E. R. Priest 58, 57
- The Development of Coronal Electric Current Systems in Active Regions and Their Relation to Filaments and Flares
W. van Tend and M. Kuperus 59, 115
- The Quantitative Interpretation of Solar X-Ray Images
M. Gerassimenko and J. T. Nolte 60, 299
- Further Remarks on the Analysis and Interpretation of Solar X-Ray Photographs
J. H. Underwood and D. L. McKenzie 60, 311
- A Comparison of the Temperature and Emission Measure of X-Ray Active Regions with Coronal Magnetic Fields
J. B. Burl, R. G. Teske, and E. B. Mayfield 63, 157
- The Height Structure of Solar Active Regions at X-Ray Wavelengths as Deduced from OSO-8 Limb Crossing Observations
J. M. Mosher 64, 109
- The Coronal and Transition Region Temperature Structure of a Solar Active Region
Randolph H. Levine and J. P. Pye 66, 39
- Morphology and Spatial Distribution of XUV and X-Ray Emissions in an Active Region Observed from Skylab
Chung-Chieh Cheng, J. B. Smith, Jr., and E. Tandberg-Hanssen 67, 259
- The Dynamic Formation of Quasi-Static Active Region Loops
I. J. D. Craig and A. N. McClymont 70, 97
- The XUV Structure of Solar Active Regions
Kenneth P. Dere 75, 189
- The Stability and Uniqueness of Coronal Loops
I. J. D. Craig, T. D. Robb, and M. D. Rollo 76, 331
- Extreme Ultraviolet Spectra of Solar Active Regions and Their Analysis
Kenneth P. Dere 77, 77
- Analysis of the High Resolution Mg XI X-Ray Spectra. II: Physical Parameters of the Plasma in Active Region McMath 14352
M. Siarkowski, J. Sylwester, G. Bromboszcz, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Urnov, I. A. Zhitnik, and S. Vasha 77, 183
- Hydromagnetic Stability of Coronal Arcade Structures: The Effects of Photospheric Line Tying
Alak Ray and Gerard Van Hoven 79, 353

Multiple Wavelength Observations of a Solar Active Region

Franca Chiuderi-Drago, Rino Bandiera, Roberto Falciani, Ester Antonucci, Kenneth R. Lang, Robert F. Willson, Kioto Shibasaki, and Cornelis Slottje **80**, 71

Active Region Magnetic Fields Inferred from Simultaneous VLA Microwave Maps, X-Ray Spectroheliograms, and Magnetograms

E. J. Schmahl, M. R. Kundu, K. T. Strong, R. D. Bentley, J. B. Smith, Jr., and K. R. Krall **80**, 233

Analysis of the High-Resolution Mg XI X-Ray Spectra. IV: Derivation of the Plasma Densities Close to the 'Low-Density' Limit

G. Bromboszcz, M. Siarkowski, J. Sylwester, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Urmov, and I. A. Zhitnik **83**, 243

A New Method for the Multitemperature Analysis of Solar X-Ray Line Emission

M. Siarkowski **84**, 131

High-Resolution Photography of the Solar Chromosphere. XVI: H α Contrast Profiles of Active Region Loops

R. J. Bray and R. E. Loughhead **85**, 131

Spatial Profiles of Lines in Active Region Loops

V. Krishan **88**, 155

Microwave, Ultraviolet, and Soft X-Ray Observations of Hale Region 16898

Kiyoto Shibasaki, Franca Chiuderi-Drago, Mauro Melozzi, Cornelis Slottje, and Ester Antonucci **89**, 307

Mg IX and Si XI Line Ratios in the Sun

F. P. Keenan, A. E. Kingston, P. L. Dufton, J. G. Doyle, and K. G. Widing **94**, 91

On Heating of Solar Active Regions by Magnetic Energy Dissipation

Mukul Kumar and Udit Narain **95**, 69

Statistical Mechanics of Velocity and Magnetic Fields in Solar Active Regions

V. Krishan **95**, 269

Two-Dimensional Pressure Structure of a Coronal Loop

V. Krishan **97**, 183

Analysis of Loop Flows Observed on 27 March, 1980 by the UVSP Instrument during the Solar Maximum Mission

R. A. Kopp, G. Poletto, G. Noci, and M. Bruner **98**, 91

Spatial and Temporal Variations of Solar Coronal Loops

S. R. Habbal, R. Ronan, and G. L. Withbroe **98**, 323

On Heating and Cooling in Some Active Region Loops

Udit Narain and Mukul Kumar **99**, 111

Active Regions, Morphology (*see Active Regions*)**Active Regions, Stellar** (*see Stellar Physics*)**Active Regions, Velocity Field****On the Motions of Chromospheric Fine-Structure in a Weak Plage**

J. B. Zirker **1**, 204

The Velocity Field Surrounding Sunspots, as Derived from Observations of H α

E. Haugen **2**, 227

The Intensity, Velocity and Magnetic Structure of a Sunspot Region. I: Observational Technique, Properties of Magnetic Knots

J. M. Beckers and E. H. Schröter **4**, 142

On the Chromospheric Velocity Field in Sunspot Regions

E. Haugen **9**, 88

The Large-Scale Velocity Fields of the Solar Atmosphere

Robert Howard **16**, 21

Fine-Scan Velocity and Magnetic-Field Measurements in Solar Active Regions

A. Bhatnagar **16**, 40

Two-Dimensional Observations of the Velocity Field in and around Sunspots

N. R. Sheeley, Jr. and A. Bhatnagar **19**, 338

Chromospheric Absorbing Features Promising the Appearance and the Development of an Active Center

M.-J. Martres and I. Soru-Escut **21**, 137

The Velocity Fields in Active Regions

Robert Howard **24**, 123

- Observations of the Horizontal Velocity Field Surrounding Sunspots
N. R. Sheeley, Jr. **25**, 98
- Flares and Changing Magnetic Fields
David M. Rust **25**, 141
- The Flares of August 1972
Harold Zirin and Katsuo Tanaka **32**, 173
- Relationship between Some Photospheric Motions and the Evolution of Active Centers
M.-J. Martres, I. Soru-Escaut, and J. Rayrole **32**, 365
- The Oscillatory Velocity Field Observed in a Unipolar Sunspot Region
J. B. Rice and V. Gaizauskas **32**, 421
- Analysis of the August 7, 1972 White Light Flare: Changes in the Magnetic and Velocity Fields
David M. Rust **33**, 205
- Studies of Granular Velocities. VI: Changes in the Granular Velocity Field around Sunspots
W. Mattig and A. Nesis **38**, 337
- The Chromospheric Evershed Flow
P. Maltby **43**, 91
- Photospheric Velocity Field Associated with Moustaches
Reizaburo Kitai and Ichiro Kawaguchi **44**, 403
- The Velocity Field Associated with the Birth of Sunspots
Ichiro Kawaguchi and Reizaburo Kitai **46**, 125
- Spatial Correlation of H α Filaments and Photospheric Velocity
M.-J. Martres, J. Rayrole, and I. Soru-Escaut **46**, 137
- A Study of the Magnetic and Velocity Fields in an Active Region
K. L. Harvey and J. W. Harvey **47**, 233
- Evolution of Fibrils with Special Reference to Flare Activity
Katsuo Tanaka **47**, 247
- Motion of Sunspot Magnetic Fields and Its Relation to Solar Flares
Kunitomo Sakurai **47**, 261
- Studies of Granular Velocities. VII: Granular Velocities around Sunspots
W. Mattig and A. Nesis **50**, 255
- The Relation of Flares to 'Newly Emerging Flux' and 'Evolving Magnetic Structures'
M. J. Martres and I. Soru-Escaut **53**, 225
- On the Appearance of Magnetic Flux in the Solar Photosphere
Cornelis Zwaan **60**, 213
- Observations of Coronal Oscillations above an Active Region
Thomas F. Egan and Timothy J. Schneeberger **64**, 223
- Steady Flows in the Chromosphere and Transition-Zone above Active Regions as Observed by OSO-8
Bruce W. Lites **68**, 327
- Extreme Ultraviolet Spectra of Solar Active Regions and Their Analysis
Kenneth P. Dere **77**, 77
- Structure and Physics of Solar Faculae. I: The Non-Thermal Velocity Field above Faculae
Z. Mouradian, S. Dumont, J.-C. Pecker, E. Chipman, G. E. Artzner, and J. C. Vial **78**, 83
- Line Profile Analysis of an Active Region Corona Observed Successively at the East and West Limb
Tokio Tsubaki **87**, 57
- Modeling of Energy Buildup for a Flare-Productive Region
S. T. Wu, Y. Q. Hu, K. R. Krall, M. J. Hagyard, and J. B. Smith, Jr. **90**, 117
- The Observation of Intrinsically Different Emergences for Large and Small Active Regions
J. I. García de la Rosa **92**, 161
- High-Resolution Spectroscopy of Active Regions. 2: Line-Profile Interpretation, Applied to an Emerging Flux Region
J. J. Brants **95**, 15
- Statistical Mechanics of Velocity and Magnetic Fields in Solar Active Regions
V. Krishan **95**, 269
- Morphological Evolution of an Emerging Flux Region
J. J. Brants and J. C. M. Steenbeek **96**, 229

Steady Flows in Active Regions Observed with the He I 10830 Å Line

Bruce W. Lites, Stephen L. Keil, Göran B. Scharmer, and Arne A. Wyller **97**, 35

High-Resolution Spectroscopy of Active Regions. 3: Relations between the Intensity, Velocity, and Magnetic Structure in an Emerging Flux Region

J. J. Brants **98**, 197The Emergence of Magnetic Flux (*Invited Review Paper*)Cornelis Zwaan **100**, 397**Atlas's, Catalogs, Films, Observations Available**

An Atlas of 10-50 keV Solar Flare X-Rays and Tentative Atlas of Solar Proton Events Observed by the OGO-I and OGO-III Ionization Chambers

S. R. Kane and J. R. Winckler **6**, 151

Iowa Catalog of Solar X-Ray Flux (2-12 Å)

Jerry F. Drake, Sr., Jean Gibson, O.S.B., and James A. Van Allen **10**, 433

A Complete Photoelectric Sunspot Spectrum: an Atlas from 3900 to 8000 Å

H. Wöhl, A. Wittmann, and E. H. Schröter **13**, 104

X-Ray Fluxes from Solrad 9 Satellite

M. Landini, B. C. Monsignori Fossi, G. Poletto, D. Russo, and G. L. Tagliaferri **13**, 226

Film with Examples of Solar Activity, Big Bear Solar Observatory

Harold Zirin **18**, 340

Solar X-Ray Observations from Vela Satellites

Paul E. Fehla **20**, 228J. W. Swenson, W. S. Benedict, L. Delbouille and G. Roland: 'The Solar Spectrum from Lambda 7498 to Lambda 12016. A Table of Measures and Identification,' *Mem. Soc. Roy. Sci., Liège*, special volume 5 (1970)J. W. Swenson, W. S. Benedict, L. Delbouille and G. Roland **22**, 240

Atlas of Magnetic Fields in the Solar Corona

Gordon Newkirk, Jr., Dorothy E. Trotter, and Martin D. Altschuler **24**, 370

Tabulation of the Harmonic Coefficients of the Solar Magnetic Fields

Martin D. Altschuler, Dorothy E. Trotter, Gordon Newkirk, Jr., and Robert Howard **41**, 225

An Atlas of Coronal Hole Boundary Positions May 28 to November 21, 1973

J. T. Nolte, A. S. Krieger, A. F. Timothy, G. S. Vaiana, and M. V. Zombeck **46**, 291 *Erratum/Replacement Figure: Fig. 1a - 53, 547*Author Index, Volumes 41-65 **72**, 379

A Catalogue of High-Speed Plasma Streams in the Solar Wind

B. A. Lindblad and H. Lundstedt **74**, 197

A Catalogue of High-Speed Plasma Streams in the Solar Wind 1975-78

B. A. Lindblad and H. Lundstedt **88**, 377'The Solar Spectrum 3069 Å-2095 Å', *Naval Res. Lab. Report* **8653**, 1983Ch. E. Moore, R. Tousey, and Ch. M. Brown **88**, 392**Atmospheres, Stellar (see Stellar Physics)****Atmospheric Extinction (see Earth's Atmosphere)****Atmospheric Modeling Techniques**

Electron Density in Flares. I: Discussion of the Halfwidth Method

Z. Švestka and L. Fritrová-Švestková **2**, 75

The Solar Continuum from 900 to 130000 Å and the Photospheric Temperature Model

A. Sauval **3**, 89

Le Fe XII dans la couronne d'émission

J.-P. Rozelot **8**, 91

Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data

J. David Bohlin and M. Simon **9**, 183

Temperature Fluctuations in the Solar Photosphere. II: The Mean Limb-Darkening and the Second Maximum

P. R. Wilson **9**, 303

The Coarse Structure of the Solar Atmosphere

M. Simon and H. Zirin **9**, 317

- The Wilson Effect and the Transparency of Sunspot Models
E. Jensen, R. Brahde, and P. Ofstad 9, 397
- Gas-Pressure and Pressure-Stratification in the Sunspot
H. Ruhm 10, 104
- On the Physical Conditions in the Photospheric Network: An Improved Model of Solar Faculae
Gary A. Chapman 14, 315
- The Solar Lyman Continuum and the Structure of the Solar Chromosphere
Robert W. Noyes and Wolfgang Kalkofen 15, 120
- A Three-Component Model for the Formation of the Chromospheric Ca II K Line
P. R. Wilson 15, 139
- Empirical Solar Continuum Models
J. L. Remo 16, 288
- Interpretation of the Solar Continuum from 1680 to 600 Å. Model of the Transition Region Photosphere-Chromosphere and of the Chromosphere
Yvette Cuny 16, 293
- Calculations of Two-Dimensional Models of the Lower Solar Chromosphere
C. J. Cannon 16, 314
- The Molecular Spectrum of Sunspots
John C. Webber 16, 340
- A New Empirical Model of a Sunspot Umbra
Hong Sik Yun 16, 379
- Radio Model of the Transition Layer in Solar Active Regions
Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci 17, 369
- A Model of the Chromosphere and Transition Zone. Radio and UV Emission of These Layers
E. E. Dubov 18, 43
- The Harvard-Smithsonian Reference Atmosphere
O. Gingerich, R. W. Noyes, W. Kalkofen, and Y. Cuny 18, 347
- The Effect of Two-Dimensional Macroscopic Velocity Fields on Models of the Lower Solar Chromosphere
C. J. Cannon 21, 82
- The Interpretation of Total Line Intensities from Optically Thin Gases. I: A General Method
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker 22, 307
- Inhomogeneous Structure of the Solar Chromosphere from Lyman-Continuum Data
J. E. Vernazza and R. W. Noyes 22, 358
- A Model for the Chromosphere-Corona Transition Region Based on Radio Observations and on Hydrodynamical Conservation Equations
P. Lantos 22, 387
- Empirical NLTE Analyses of Solar Spectral Lines. I: A Method and Some Applications to Earlier Analyses
Jan W. Wijnenga and Cornelis Zwaan 23, 265
- A First Order Analysis of Variations of the Limb Darkening and the Shapes for Solar Fraunhofer Lines
R. G. Athay, B. W. Lites, O. R. White, and J. W. Brault 24, 18
- Coronagraphic Observations of an Enhanced Coronal Region. II: Temperature and Density Structure through the Enhanced Region
Richard R. Fisher 24, 385
- On the Adjustment of Outer Solar Layer Models
I. A. Krinberg and R. B. Teplitskaya 25, 305
- Temperature Structure and Conductive Flux in the Chromosphere-Corona Transition Region
G. Elwert and P. K. Raju 25, 319
- Mean Values in Inhomogeneous Atmospheres
P. R. Wilson and N. V. Williams 26, 30
- Coronal Abundance of Elements and a Model of the Quiet Sun from Radio Observations
Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci 26, 343
- A Model for the Polar Transition Layer and Corona for November 1967
George L. Withbroe and Yi-Ming Wang 27, 394
- Solar Wind Density Model from km-Wave Type III Bursts
Hector Alvarez and F. T. Haddock 29, 197

- Extreme Ultraviolet Emission from Chromospheric Inhomogeneities. An Analysis of the Extreme Ultraviolet Flash Spectrum of the Sun
G. E. Brueckner and K. R. Nicolas **29**, 301
- Studies of the Solar Chromosphere from Millimetre and Sub-Millimetre Observations. II: Simple Models of the Lower Chromosphere
J. E. Beckman, C. D. Clark, and J. Ross **31**, 319
- One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. I: The Violet System of CN(0,0)
George H. Mount, Jeffrey L. Linsky, and Richard A. Shine **32**, 13
- A Dynamical Model for the Chromosphere-Corona Transition Region
Claudio Chiuderi and Iacopo Riani **34**, 113
- One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. II: CN(1, 1) on the CN Violet System
George H. Mount and Jeffrey L. Linsky **35**, 259
- One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. III: CH(0, 0) λ 3144 of the CH C-X System
George H. Mount and Jeffrey L. Linsky **36**, 287
- A Facular Model Based on the Wings of the Ca II Lines
Richard A. Shine and Jeffrey L. Linsky **37**, 145
- A Comparison of Three Solar Active Regions Based on Their Soft X-Ray Line Spectra
D. H. Brabban **38**, 449
- Flare Model Chromospheres and Photospheres
Marcos E. Machado and Jeffrey L. Linsky **42**, 395
- Analysis of EUV Limb-Brightening Observations from ATM. I: Model for the Transition Layer and the Corona
John T. Mariska and George L. Withbroe **44**, 55
- A Method for Empirical Determination of Stellar Atmospheric Structure
Larry W. Ramsey and Hollis R. Johnson **45**, 3
- The Analysis and Interpretation of Solar X-Ray Photographs
J. H. Underwood and D. L. McKenzie **53**, 417 *Erratum 57*, 485
- A Physical Parameter Method for the Design of Broad-Band X-Ray Imaging Systems to Do Coronal Plasma Diagnostics
S. Kahler and A. S. Krieger **56**, 351
- A Comparison of Synthetic and Measured Solar Continuum Intensities and Limb Darkening Coefficients
T. R. Ayres **57**, 19
- Temperature Gradients in the Inner Corona
John T. Mariska and George L. Withbroe **60**, 67
- The Quantitative Interpretation of Solar X-Ray Images
M. Gerassimenko and J. T. Nolte **60**, 299
- Further Remarks on the Analysis and Interpretation of Solar X-Ray Photographs
J. H. Underwood and D. L. McKenzie **60**, 311
- X-Ray Temperature-Emission Measure Modeling of the Solar Corona
G. G. Cohen and D. W. Keith **63**, 165
- EUV and Radio Spectrum of Coronal Holes
Franca Chiuderi Drago **65**, 237
- Multitemperature Analysis of Solar X-Ray Line Emission
J. Sylwester, J. Schrijver, and R. Mewe **67**, 285
- Non-Equilibrium Ionization in the Transition Region Network
Michael H. Francis **69**, 239
- Analysis of the High Resolution Mg XI X-Ray Spectra. II: Physical Parameters of the Plasma in Active Region McMath 14352
M. Siarkowski, J. Sylwester, G. Bromboszcz, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Urnov, I. A. Zhitnik, and S. Vasha **77**, 183
- Structure and Physics of Solar Faculae. III: The Densities in the Chromosphere-Corona Transition Zone
S. Dumont, Z. Mouradian, J.-C. Pecker, J.-C. Vial, and E. Chipman **83**, 27
- A New Method for the Multitemperature Analysis of Solar X-Ray Line Emission
M. Siarkowski **84**, 131

The Lyman Alpha Line in Solar Prominences

Juan Manuel Fontenla and Marta Rovira 85, 141

Weakening of the Solar EUV Line Emission near the Sun's Limb

Mitsuo Kanno 89, 253

On the Temperature Structure of Sunspot Umbrae

A. A. van Ballegoijen 91, 195

A Model of a Penumbral Chromosphere

H. S. Yun, H. A. Beebe, and W. Baggett 92, 145

Thermal Bifurcation in the Upper Photosphere Inferred from Heterodyne Spectroscopy of OH Rotational Lines

Drake Deming, John J. Hillman, Theodor Kostiuik, Michael J. Mumma, and David M. Zipoy 94, 57

The Solar O I $\lambda 7773$ Triplet. II: Analysis Using Line Inversion Techniques

A. Kavetsky and B. J. O'Mara 96, 1

Atmospheric Models, Solar**The Relative Intensities of C I Lines in the Solar EUV Spectrum**

Carole Jordan 2, 441

The Bilderberg Model of the Photosphere and Low Chromosphere

O. Gingerich and C. de Jager 3, 5

The Solar Continuum from 900 to 130000 Å and the Photospheric Temperature Model

A. Sauval 3, 89

Comments on the Bilderberg Continuum Atmosphere

Günther Elste 3, 106

A Simplified Model Solar Atmosphere

D. L. Lambert 3, 118

The Interpretation of Velocity Filtergrams. I: The Effective Depth of Line Formation

R. L. Parnell and J. M. Beckers 9, 35

The Rotation of the Solar Atmosphere

E. J. Weber 9, 150

Can the Ion H_3^+ Account for Mission Opacity in the Solar Ultraviolet?

Jeffrey L. Linsky 11, 198

The Harvard-Smithsonian Reference Atmosphere

O. Gingerich, R. W. Noyes, W. Kalkofen, and Y. Cuny 18, 347

On the Dependence of the Linear Velocity of Solar Rotation on Latitude and Optical Depth

Y. A. Solonsky 23, 3

Intensity Fluctuations in Fraunhofer Lines

Frank Q. Orrall 23, 30

Spectral Analysis of Highly Inhomogeneous Chromospheric Flares

Z. Švestka 24, 154

The Empirical Determination of Line Source Functions, β_L -Values, and the Microturbulent and Convective Velocity Components as Functions of Depth in the Photosphere-Chromosphere Transition Region

C. de Jager and L. Neven 25, 277

On the Adjustment of Outer Solar Layer Models

I. A. Krinberg and R. B. Teplitskaya 25, 305

The Formation of Mg I 4571 Å in the Solar Atmosphere. I: A Model Analysis of a One-Dimensional Static AtmosphereRichard C. Altrock and C. J. Cannon 26, 21 *Erratum* 29, 285**Mean Values in Inhomogeneous Atmospheres**

P. R. Wilson and N. V. Williams 26, 30

On the Radio Optical Depth of the Layer Where the Temperature Equals the Brightness Temperature

Franca Chiuderi Drago 27, 132

A Model of the Quiet Solar Atmosphere

J. H. Piddington 27, 402

A Search for Continuous Ultraviolet Opacity Sources in the Sun's Photosphere

Egidio Landi Degl'Innocenti and Giancarlo Noci 29, 287

The Near Ultra-Violet Flux of the Harvard Smithsonian Reference Atmosphere

R. A. Bell 29, 299

- The Formation of Mg 14571 Å in the Solar Atmosphere. III: The Holweger Solar Model
Richard C. Altrock and C. J. Cannon 30, 31
- A Model of the Solar Convection Zone
H. C. Spruit 34, 277
- The Line Response Function of Stellar Atmospheres and the Effective Depth of Line Formation
Jacques M. Beckers and Robert W. Milkey 43, 289
- A Method for Empirical Determination of Stellar Atmospheric Structure
Larry W. Ramsey and Hollis R. Johnson 45, 3
- An Archetype Hydrogen Atmosphere Problem
R. Grant Athay, Dimitri Mihalas, and R. A. Shine 45, 15
- The Effective Optical Depth for the Formation of Absorption Lines
Mitsugu Makita 51, 43
- Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. I: Method
B. Schmieder 54, 269
- Current Sheets as the Source of Heating for Solar Active Regions
B. V. Somov and S. I. Syrovatskii 55, 393
- A Two-Dimensional Solar Model
George Driver Nelson 60, 5
- Solar Atmospheric Model Including OH-Continuum Opacity
P. W. Fox and S. P. Tarafdar 60, 241
- Mass Flow and the Validity of Ionization Equilibrium on the Sun
JoAnn Joselyn, R. H. Munro, and T. E. Holzer 64, 57
- Models of the Open Solar Atmosphere
M. A. Wragg and E. R. Priest 69, 257
- Radiative Transfer and Solar Oscillations (*Invited Review*)
Jørgen Christensen-Dalsgaard and Søren Frandsen 82, 165
- The H^- Equilibrium Using Coupled Rate Equations for H^- , H , H^+ , H_2 , and H_2^+
Bruce W. Lites and Dimitri Mihalas 93, 23
- Photospheric Limb-Darkening Signatures of Global Structure Variations
L. D. Petro, P. V. Foukal, and Robert L. Kurucz 98, 23

Atmospheric Models, Stellar

- A Method for Empirical Determination of Stellar Atmospheric Structure
Larry W. Ramsey and Hollis R. Johnson 45, 3
- Physical Properties of Solar Chromospheric Plages. III. Models Based on Ca II and Mg II Observations
Walter L. Kelch and Jeffrey L. Linsky 58, 37
- Turbulence in Stellar Atmospheres (*Invited Review Paper*)
David F. Gray 59, 193

Atmospheric Seeing (*see Earth's Atmosphere*)

Atomic Parameters

- Solar Abundance Determination from Ultraviolet Emission Lines
Andrea K. Dupree and Leo Goldberg 1, 229
- The Influence of Doubly Excited Levels on the Ionization Formula for the Solar Corona
Walter van Rensbergen 1, 354
- Oscillator Strengths for Resonance Lines of Some Silicon and Sulfur Ions
Sidney O. Kastner 2, 196
- The Excitation of Fe XVII by Electron Impacts
O. Bely and F. Bely 2, 285
- Emission of Fe XV in Coronal Conditions
O. Bely and M. Blaha 3, 563
- A Study of Weak Molecular and Atomic Lines in the Photospheric Spectrum
E. A. Mallia 5, 281
- Calcul des probabilités de transition pour divers états excités du Fe XII
J.-P. Rozelot 6, 49
- On a More Precise Calculation of the Electric Conductivity in the Photosphere and in Sunspots
M. Kopecký and G. V. Kuklin 6, 241

An Empirical Interpolation Formula for the Ionization Cross-Sections of Hydrogen-Like Ions

A. Jacobs 6, 410

Cross-Sections for the (^4He , ^3H) Stripping Reaction on Fe, Al, C and Glass Targets at an Energy of 120 MeV

K. C. Anand, R. R. Daniel, and S. A. Stephens 8, 152

Spin-Forbidden Resonance Multiplets in Light Elements

B. Edlén, H. P. Palenius, K. Bockasten, R. Hallin, and J. Bromander 9, 432

On the Identification of Ar X and Ar XIV in the Solar Corona and the Origin of the Unidentified Coronal Lines

Bengt Edlén 9, 439

Identification of SiH Lines in the Solar Disk Spectrum

A. J. Sauval 10, 319

Damping Constants for Infrared Fraunhofer Lines

C. de Jager and L. Neven 11, 3

Some Oscillator Strengths in the Spectra of C I, O I, Si I, Ca II and Sr II

Walter van Rensbergen 11, 11

Theoretical Intensities of Fe XIV in the Solar EUV Spectrum

M. Blaha 17, 99

The Spectrum of Multiply Ionized Argon between 20 and 40 Angstroms

J. P. Connerade, N. J. Peacock, and R. J. Speer 18, 63

Predicted Wavelengths of Coronal Transitions in the Configurations $3s^23p^2$, $3s^23p^3$ and $3s^23p^4$

Lars Åke Svensson 18, 232

A Simple Formula for the Total Dielectric Recombination Coefficient

M. Landini and B. C. Monsignori Fossi 20, 322

The Solar Abundance of Manganese

D. E. Blackwell, B. S. Collins, and A. D. Petford 23, 292

Z-Dependence of the Level Intervals in $2s^22p^2$, $2s^22p^3$ and $2s^22p^4$

Bengt Edlén 24, 356

Electron Impact Excitation Rates for Helium

R. S. Benson and J. L. Kulander 27, 305

A Proposed Correction to the Solar Abundances of Carbon and Oxygen Utilizing New and Accurate Theoretical Forbidden Transition Probabilities

Cleanthis A. Nicolaidis and Oktay Sinanoğlu 29, 17

Proton Collisional Excitation in the Ground Configuration of Fe^{+12}

Donald A. Landman 30, 371 Errata 47, 636

Proton Collisional Excitation in the Ground Configuration of Fe^{+12} , II

Donald A. Landman 31, 81 Errata 47, 636

 $3p^63d^n-3p^53d^{n+1}$ Spectra of Fe VI and Fe VII

B. C. Fawcett and R. D. Cowan 31, 339

Oscillator Strengths for $2pnd-2pn'f$ Transitions of C I and Identifications in the Infrared Solar Photospheric Spectrum ($1 \leq \lambda \leq 3 \mu$)

E. Biémont 32, 117

Line Broadening Calculations for Some Infrared Solar Fraunhofer Lines

Ghislain Derudder and Walter van Rensbergen 34, 77

The Identification of Fe IX and Ni XI in the Solar Corona

L. Å. Svensson, J. O. Ekberg, and B. Edlén 34, 173

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. I: Results for Ti I

E. Biémont 38, 15

Determinations of Atomic Lifetimes for the Rare Earth Ions: Pr II, Tm II, Lu II, Ce III

T. Andersen and G. Sørensen 38, 343

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron Group and Their Solar Photospheric Abundance. II: Results for Sc I

E. Biémont 39, 305

On the Broadening and Shift of Spectral Lines

Walter van Rensbergen, Elise de Doncker, and Ghislain Derudder 40, 303

High n Emission and Absorption Lines of the Sun (II)

A. Greve 40, 329

Population théorique des sous niveaux Zeeman relatifs à la raie 5303 Å de Fe XIV

J. P. Rozelot 41, 373

Lifetimes of Some Excited States in the Rare Earths: La II, Ce II, Pr II, Nd II, Sm II, Yb I, Yb II, and Lu II

T. Andersen, O. Poulsen, P. S. Ramanujam, and A. Petrakiev Petkov 44, 257

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. III: Results for Mn I

Emile Biémont 44, 269

Forbidden Transition Probabilities for Ground Terms of Ions with p or p^5 Configurations

S. O. Kastner 46, 179

Photoelectric Absorption of Hard X-Rays in the Solar Atmosphere

Eberhard Haug 48, 261

The Solar Hafnium Abundance

T. Andersen, P. Petersen, and Ö. Hauge 49, 211

The Solar Abundance of Titanium

R. S. Ellis 50, 261

On Dielectronic Recombination Coefficients of the H, He and Ne Sequences

N. K. Jain and Udit Narain 50, 361

Radiative Recombination in Some Ions of Astrophysical Interest

Udit Narain, H. P. Mital, and Suresh Chandra 52, 417

New Measurements of the Se I Resonance Lines

B. Lindgren and H. Palenius 53, 347

On AIF Lines in Sunspots

P. S. Murty 54, 377

Autoionization Rate Coefficients for Some Coronal Ions

H. P. Mital and U. Narain 54, 387

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. IV: Results for V I, Co I and Summary

E. Biémont 56, 79

Autoionization Rate Coefficients for Some Ions of Astrophysical Interest

H. P. Mital and U. Narain 57, 341

The Seven Components of $H\alpha$ and the 9873 MHz Line

A. Zelenka 58, 17

Excitation Equilibrium for Low Lying Levels in C II, N III, O IV, Ne VI, Mg VIII, Si X, and Si II

Suresh Chandra 58, 291

The Coronal Spectra of Fe XV and Ni XVII

A. K. Bhatia and S. O. Kastner 65, 181

On the Determination of Damping Constants for Fe I Lines in the Solar Photosphere

W. Van Rensbergen and G. Deridder 67, 5

The Empirical Determination of Damping Constants in the Solar Photosphere. I: Preliminary Results for Fe I Lines

E. A. Gurtovenko and N. N. Kondrashova 68, 17

Non-Maxwellian Velocity Distribution Functions Associated with Steep Temperature Gradients in the Solar Transition Region. II: The Effect of Non-Maxwellian Electron Distribution Functions on Ionization Equilibrium Calculations for Carbon, Nitrogen and Oxygen

Robert Roussel-Dupré 68, 265

f -Values for Tb II and a Search for Terbium in the Solar Photosphere

E. Biémont, G. Roland, and L. Delbouille 71, 223

On the Effective Landé Factor of Magnetic Lines

Egidio Landi Degl'Innocenti 77, 285

The Empirical Determination of Damping Constants in the Solar Photosphere. II: Results Inferred from the Wings of Fe I Lines

E. A. Gurtovenko, G. L. Fedorchenko, and N. N. Kondrashova 77, 291

Spin-Orbit Electric Dipole Transmission in Beryllium-Like Ions

R. Glass 78, 29

Damping Constant and Turbulence in the Solar Atmosphere

R. I. Kostik 78, 39

Transitions in Highly Ionized Silicon

R. Glass 80, 321

Analysis of the High-Resolution Mg XI X-Ray Spectra. IV: Derivation of the Plasma Densities Close to the 'Low-Density' Limit

G. Bromboszcz, M. Siarkowski, J. Sylwester, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Urnov, and I. A. Zhitnik 83, 243

Calculation of Coronal Line Intensities for Boron-Like Ions

H. P. Saha and E. Treffitz 87, 233

Line Ratios for Solar Ultra-Violet Lines of OV

J. G. Doyle, P. L. Dufton, F. P. Keenan, and A. E. Kingston 89, 243

The 3410 Å Band of the PH Molecule in the Solar Photospheric Spectrum

Elisabete M. De Gouveia and P. D. Singh 90, 259

Oscillator Strengths for Optically Allowed Transitions in Carbon-Like Ions

K. M. Aggarwal 90, 281

The H^- Equilibrium Using Coupled Rate Equations for H^- , H , H^+ , H_2 , and H_2^+

Bruce W. Lites and Dimitri Mihalas 93, 23

Line Intensity Ratios of Transitions within the $1s^2s^2p^2$ Ground Configuration of Mg VII

K. M. Aggarwal 94, 75

Theoretical Ne IX Line Ratios Compared to Solar Observations

F. P. Keenan, S. S. Tayal, and A. E. Kingston 94, 85

Role of the Gaunt Factor in the Derivation of Dielectronic Recombination Coefficient

Badré Alam and S. M. Razaullah Ansari 96, 219

Improved Theoretical Line Ratios for C III in the Sun

F. P. Keenan and K. A. Berrington 99, 25

Aurora (see *Magnetosphere*)

Book Reviews

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L. D. de Feiter 3, 623

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Josip Kleczek 16, 238

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Jay M. Pasachoff 18, 177

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J. J. Quenby 22, 240
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G. W. Hutchinson 22, 241
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R. Grant Athay 43, 513
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Jay M. Pasachoff 43, 513
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R. Petraso 57, 241
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C. J. Schrijver **79**, 400
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František Fárník **91**, 193
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J. Schrijver **98**, 195
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P. C. H. Martens **98**, 195

Center-Limb Observations

On the Correction for Foreshortening for Ca Plages

G. Godoli and B. C. Monsignori Fossi **1**, 148

The Structure of a Sunspot. III: Observations of the Wilson Effect

P. R. Wilson and C. J. Cannon **4**, 3

Directivity of Solar Microwave Bright Regions

U. V. Gopala Rao **4**, 428

Directivity of Solar Hard X-Ray Bursts

Ken-Ichiro Ohki **7**, 260

Gyro-Synchrotron Emission in a Magnetic Dipole Field for the Application to the Center-to-Limb Variation of Microwave Impulsive Bursts

Tatsuo Takakura and Eugenio Scalise, Jr. **11**, 434

Some Center-Limb Statistical Trends of Impulsive Solar Bursts at 7 GHz

O. T. Matsuura and M. F. F. Nave **14**, 384

Width of Emission Cores of the Line K Ca II in Sunspots

R. B. Teplitskaya and S. A. Efendieva **28**, 369

Further Evidence for a Complex Limb Structure in the Solar Radial Brightness Distribution at mm Wavelengths

Paul N. Swanson, Fred L. Wefer, William J. Decker, and John P. Hagen **28**, 419

First Observations of the Granulation at 1.65 μ , Center to Limb Variation of the Contrast

P. J. Turon and P. Léna **30**, 3

Some Statistical Properties of Ellerman Bombs

J.-René Roy and H. Leparskas **30**, 449

The Comparison of the Magnetographic Magnetic Field Measured in Different Spectral Lines

S. I. Gopasyuk, V. A. Kotov, A. B. Severny, and T. T. Tsap **31**, 307

The Galloping Chromosphere

C. Sawyer **35**, 63

The Depth of Sunspots

Th. Prokakis **35**, 105

On Anisotropy of Solar Hard X-Ray Emission

G. Pizzichini, A. Spizzichino, and G. R. Vespignani **35**, 431

The Center-to-Limb Variation of the Photospheric Wave Spectrum

M. Stix and H. Wöhl **37**, 63

Horizontal Velocities in the Solar Photosphere

Dainis Dravins **40**, 53

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. IV: Non-LTE Treatment of the CN Violet System

George H. Mount and Jeffrey L. Linsky **41**, 17

Visibility of the Photospheric Granulation in Fe I $\lambda 6569.2$

R. E. Loughhead and R. J. Bray **45**, 35

A Model of Photospheric Faculae Deduced from White Light High Resolution Pictures

R. Muller **45**, 105

Directivity in the Stream-Plasma Interaction

J. de la Noë, B. Møller-Pedersen, and A. Boischoit **46**, 505

The Horizontal Variation of Temperature in the Low Solar Photosphere

Richard C. Altrock **47**, 517

Solar Limb Darkening. I: $\lambda\lambda(3033-7297)$

A. Keith Pierce and Charles D. Slaughter **51**, 25

A New Measurement of the Center-to-Limb Variation of the rms Granular Contrast

S. L. Keil **53**, 359

A Comparison of Synthetic and Measured Solar Continuum Intensities and Limb Darkening Coefficients

T. R. Ayres **57**, 19

The Strength of the Sun's Polar Fields

Leif Svalgaard, Thomas L. Duvall, Jr., and Philip H. Scherrer **58**, 225

Some Comments on the Limb Shift of Solar Lines. II: The Effect of Granular Motions

Jacques M. Beckers and George Driver Nelson **58**, 243

Center to Limb Variation of the Intensity of the Photospheric Faculae

Tadashi Hirayama and Fumio Moriyama **63**, 251

- Wide-Band Average Spectra of Solar Radio Bursts
M. K. Das Gupta, T. K. Das, and S. K. Sarkar 67, 109
- Some Comments on the Limb Shift of Solar Lines. III: Variation of Limb Shift with Solar Latitude, across
Plages, and across Supergranules
Jacques M. Beckers and William R. Taylor 68, 41
- Faculae, Filigree and Calcium Bright Points
P. R. Wilson 69, 9
- Empirical Limb Effect Curves for the Fe I Lines $\lambda 5250$ and $\lambda 5576$
David H. Bruning 71, 233 *Erratum* 76, 199
- Solar Cycle Variation of Sunspot Intensity
F. Albrechtsen and P. Maltby 71, 269
- Improved Data of Solar Spectral Irradiance from 0.33 to 1.25 μ
Heinz Neckel and Dietrich Labs 74, 231
- About the Foreshortening Effect on Sunspot Umbral Dots
A. Adjabshirzadeh and S. Koutchmy 75, 71
- On the Size and Structure of Bright Solar Ca^+ -Network Cells Depending on the Heliographic Position
Rüdiger Brune and Hubertus Wöhl 75, 75
- Solar Limb Brightening at the Extreme Limb from Photoelectric Eclipse Observations
Warren A. Rosen and Howard L. Poss 78, 17
- The Angle of Inclination of the Sunspot Symmetry Axis to the Solar Surface
Saken Obashevich Obashev, Rimma Khaliullova Gainullina, Tamara Mikhajlovna Minasyants, and Gen-
nadij Sergeevich Minasyants 78, 59
- Limb-Darkening and Solar Cycle Variation of Sunspot Intensities
F. Albrechtsen, P. B. Jorås, and P. Maltby 90, 17
- Center-to-Limb Variations in the Two-Dimensional Contrast of Photospheric Faculae
G. A. Chapman and T. W. Gingell 91, 243
- Plasma Motion in Umbrae and the Surrounding Photosphere Derived from Spectroscopic Doppler Measurements
and Tracer Measurements of Spots
Axel Koch 93, 53
- The Limb Effect of the K I Resonance Line, 769.9 nm
B. N. Andersen, S. Barth, V. Hansteen, T. Leifsen, P. B. Lilje, and F. Vikanes 99, 17
- On the Contribution of Horizontal Granular Motions to Observed Limb-Effect Curves
Horst Balthasar 99, 31
- Precise Wideband Photometry of Photospheric Faculae with an Emphasis on the Disk Center
Tadashi Hirayama, Shigeo Hamana, and Kazuo Mizugaki 99, 43
- Center-Limb Observations, Brightness**
- On a Difference of the Chromospheric Background Intensity between the Equatorial and Polar Regions of the
Sun
C. J. Macris 1, 101
- Observations of the Center-to-Limb Variation of the Solar Brightness in the Far Infrared (10 to 25 Microns)
Pierre J. Léna 3, 28
- Observational Studies of the Solar Intensity Profile in the Far Infrared and Millimeter Regions
R. W. Noyes, J. M. Beckers, and F. J. Low 3, 36
- Limb-Darkening Observations between 1800 and 2900 Å
R. M. Bonnet and J. E. Blamont 3, 64
- The Far Ultraviolet Spectrum of the Sun
Owen Gingerich and John C. Rich 3, 82
- The Solar Continuum from 900 to 130000 Å and the Photospheric Temperature Model
A. Sauval 3, 89
- Comments on the Bilderberg Continuum Atmosphere
Günther Elste 3, 106
- Source Functions in the Cores of Infrared Fraunhofer Lines
C. de Jager and L. Neven 3, 159
- A Measurement of the Solar H and K Profiles
O. R. White and Z. Suemoto 3, 523

- The Structure of a Sunspot. IV: A Two-Dimensional Radiative Transfer Analysis of Center-Limb Intensity Profiles
P. R. Wilson **5**, 338
- Solar Limb Brightening and Enhancement Measurements at 1.2 mm
R. A. Newstead **6**, 56
- On the Center-to-Limb Variation of Sunspot Brightness
W. Mattig **6**, 413
- Systematic Photometry of XUV Images
C. W. Allen **8**, 72
- Pencilbeam Observation of Solar Bursts at 36 GHz
G. Feix **9**, 265
- The Coarse Structure of the Solar Atmosphere
M. Simon and H. Zirin **9**, 317
- No Evidence of Any Solar Limb Brightening in the Range of 3.5 mm-2 cm
A. Tlamicha **10**, 150
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. V: On the Gradients of Temperature and Pressure in Sunspots
A. Wittman and E. H. Schröter **10**, 357
- Structure of a Sunspot. V: What is the Wilson Effect?
P. R. Wilson and P. S. McIntosh **10**, 370
- Solar XUV Limb Brightening Observations. I: The Lithium-Like Ions
George L. Withbroe **11**, 42
- Solar XUV Limb Brightening Observations. II: Lines Formed in the Chromospheric-Coronal Transition Region
George L. Withbroe **11**, 208
- The 3.3-mm Brightness Distribution of the Quiet Sun
F. I. Shimabukuro **12**, 438
- Solar Limb Brightening at 3.1 cm
M. Felli and G. Tofani **13**, 194
- Center-Limb Observations of Inhomogeneities in the Solar Atmosphere. I: The Mg b Lines
C. J. Cannon and P. R. Wilson **14**, 29
- On the Physical Conditions in the Photospheric Network: An Improved Model of Solar Faculae
Gary A. Chapman **14**, 315
- The Solar Lyman Continuum and the Structure of the Solar Chromosphere
Robert W. Noyes and Wolfgang Kalkofen **15**, 120
- Empirical Solar Continuum Models
J. L. Remo **16**, 288
- Eclipse Measurements near 1.2 cm Wavelength on September 11, 1969
Mohamed El-Raey **16**, 404
- Center Limb Observations of Inhomogeneities in the Solar Atmosphere. II: The Na D and Na 5688 Doublets and the Mg I 4571 Line
C. J. Cannon and P. R. Wilson **17**, 288
- Observations of the 1.4 mm Brightness Distribution of the Sun
F. I. Shimabukuro **18**, 247
- Observations of a Partial Solar Eclipse at 9 mm Wavelength
A. M. Flett, Patricia R. Foster, P. Strachan, and D. C. Thornton **20**, 317
- Multi-Channel Magnetograph Observations. III: Faculae
Edward N. Frazier **21**, 42
- Solar Radio Emission at 1.2 mm Wavelength
M. R. Kundu **21**, 130
- Observations of the 7 March, 1970 Total Solar Eclipse at Wavelengths of 3.2 and 8.3 mm
John P. Hagen, Paul N. Swanson, Robert W. Haas, Fred L. Wefer, and Raymond W. Vogt **21**, 286
- High Resolution Observations of the Chromosphere at mm and cm Wavelengths
M. Simon **21**, 297
- Quiet-Sun Center-Limb Observations at 6 and 11 cm during Cycle Maximum
J. C. Ceballos and P. Lantos **22**, 142
- Observations of Photospheric Pole-Equator Temperature Differences
Richard C. Altrock and Richard C. Canfield **23**, 257

- A First Order Analysis of Variations of the Limb Darkening and the Shapes for Solar Fraunhofer Lines
R. G. Athay, B. W. Lites, O. R. White, and J. W. Brault 24, 18
- Photographs of the Sun in the XUV-Region
M. Burger and J. H. Dijkstra 24, 395
- Mean Values in Inhomogeneous Atmospheres
P. R. Wilson and N. V. Williams 26, 30
- Observations of the Intensity of the Penumbra of Sunspots
P. Maltby 26, 76
- Equator-Pole Differences in the Solar Chromosphere from Lyman-Continuum Data
J. E. Vernazza and R. W. Noyes 26, 335
- Relative Umbral Intensity of a Large Sunspot
N. Mykland 28, 49
- Studies of the Solar Chromosphere from Millimetre to Sub-Millimetre Observations. I: Isophotometric Mapping
J. E. Beckman and C. D. Clark 29, 25
- The Brightness Distribution of the Sun at 2.8 cm Wavelength
E. Fürst, O. Hachenberg, and W. Zinz 32, 445
- Observation of the Absolute Intensity and the Centre-to-Limb Variation of the Sun in the Vacuum Ultraviolet Region
Keizo Nishi 33, 23
- Bright Photospheric Areas Surrounding Sunspot Groups at 5700 Å
Richard A. Miller 36, 91
- A Gaussian Spread Function for the Solar Aureole
L. Staveland 36, 235
- Brightness Distribution at $\lambda = 3$ and 21 cm near the Solar North Pole
Franca Chiuderi Drago and Patrizio Patriarchi 37, 403
- A Method for Investigating the Brightness Distribution near the Solar Limb at Millimeter Wavelengths
P. Joensen, W. H. McCutcheon, and W. L. H. Shuter 39, 309
- Solar Limb Brightening at Millimeter Wavelengths
P. M. Kalaghan 39, 315
- 3.3 Millimeter Limb Brightening Measurements during the 30 June 1973 Total Solar Eclipse
F. I. Shimabukuro, W. J. Wilson, T. T. Mori, and P. L. Smith 40, 359
- The Radial Brightness Distribution of the Sun at 3.2 mm as Determined from the June 30, 1973 Total Solar Eclipse and a Reanalysis of the March 7, 1970 Total Solar Eclipse
Paul N. Swanson and John P. Hagen 43, 57
- The Geometry of the Chromosphere-Corona Transition Region Inferred from the Center-to-Limb Variation of the Radio Emission
M. Kanno and R. Tanaka 43, 63
- On the Center-to-Limb Variation of Infrared Photospheric Carbon Lines and the Infrared Continuum Intensity around 1.75 μm
Hubertus Wöhl 43, 285
- The Brightness of the Helium D₃ Line in the Undisturbed Chromosphere from Eclipse Observations
R. A. Gulyaev 44, 25
- Analysis of EUV Limb-Brightening Observations from ATM. I: Model for the Transition Layer and the Corona
John T. Mariska and George L. Withbroe 44, 55
- Comments on the Quiet Sun Brightness Distribution at 1.2 mm Wavelength
M. R. Kundu and Sou-Yang Liu 44, 361
- Interferometer Observations of the Solar Brightness Distribution at 8.6 mm Wavelength
Ikuro Suzuki, Kin-Aki Kawabata, and Hideo Ogawa 46, 205
- Analysis of EUV-Limb Brightening Observations from ATM. II: Influence of Spicules
George L. Withbroe and John T. Mariska 48, 21
- Solar Flux Determination in the Spectral Range 150-210 nm
Denys Samain and Paul C. Simon 49, 33
- Brightness Distributions of the Sun at 33 and 37 GHz
M. R. Kundu, Sou-Yang Liu, and T. P. McCullough 51, 321
- Solar Limb Darkening in the Interval 7404-24018 Å, II
A. K. Pierce, C. D. Slaughter, and Doreen Weinberger 52, 179

The Helium 10830 Å Line in the Undisturbed Chromosphere

R. G. Giovanelli and D. Hall 52, 211

Observations of the Quiet Sun at Meter and Decameter Wavelengths

M. R. Kundu, T. E. Gergely, and W. C. Erickson 53, 489

A Comparison of He II 304 Å and He I 10830 Å Spectroheliograms

J. W. Harvey and N. R. Sheeley, Jr. 54, 343

Solar Brightness Distribution at 3 mm Wavelength from Observations of the Eclipse of 1976 October 23

N. R. Labrum, J. W. Archer, and C. J. Smith 59, 331

The Sun at 8.5 mm Wavelength - Results of Observations with High Angular Resolution

O. Hachenberg, P. Steffen, and W. Harth 60, 105

The Radius of the Sun at Centimeter Waves and the Brightness Distribution across the Disk

E. Fürst, W. Hirth, and P. Lantos 63, 257

Solar Brightness Distribution at 8.6 mm from Interferometer Observations

K. Kawabata, M. Fujishita, T. Kato, H. Ogawa, and T. Omodaka 65, 221

Microwave Solar Limb Brightening

I. A. Ahmad and M. R. Kundu 69, 273

Limb Darkening in the Solar Ultraviolet

Walter E. Mitchell, Jr. 69, 391

Airborne Total Eclipse Observations of the Extreme Solar Limb at 400 μm

T. Alan Clark and Rita T. Boreiko 76, 117 *Addendum* 83, 187

Large-Scale Brightness Inhomogeneities in the Solar Atmosphere

Walter E. Mitchell, Jr. 80, 3

Observation of Global 160-min Infrared (Differential) Intensity Variation of the Sun

V. A. Kotov, S. Koutchmy, and O. Koutchmy 82, 21

Visibility of Facular Fields in Mg I b-Lines

A. A. Galal 85, 123

On the Integration of Intensity Measurements of the Solar Center and Limb near 300 Nanometers

Kenneth Moe 88, 9

Weakening of the Solar EUV Line Emission near the Sun's Limb

Mitsuo Kanno 89, 253

The Solar Radiation between 3300 and 12500 Å

Heinz Neckel and Dietrich Labs 90, 205 *Errata* 92, 391

On the Sun's Limb Brightening in the Visible

G. H. Elste 93, 15

Photospheric Limb-Darkening Signatures of Global Structure Variations

L. D. Petro, P. V. Foukal, and Robert L. Kurucz 98, 23

High Spatial Resolution Microwave Observations of the Sun (*Invited Review Paper*)

M. R. Kundu 100, 491

Center-Limb Observations, Line Profiles

Center-to-Limb Analysis of the Solar Oxygen Lines

Edith A. Müller, Bodo Baschek, and Hartmut Holweger 3, 125

The Center-Limb Behavior of Solar Molecular Lines

George L. Withbroe 3, 146

The Solar H and K Lines of Ionized Calcium

J. B. Zirker 3, 164

Emission Cores in H and K Lines. IV: Center-to-Limb Variation

R. Grant Athay and A. Skumanich 4, 176

A New Method for the Analysis of Equivalent Widths and Its Application to Solar Photospheric Oxygen

Richard C. Altrock 5, 260

A Study of Weak Molecular and Atomic Lines in the Photospheric Spectrum

E. A. Mallia 5, 281

The Photospheric Abundance of Iron

George L. Withbroe 9, 19

Equator-Pole Effect in the Central Intensities of Some Strong Solar Fraunhofer Lines

Marijke Burger and J. Houtgast 9, 296

The Forbidden Line [Ca II] λ7323 in the Fraunhofer Spectrum

D. L. Lambert and E. A. Mallia 10, 311

- Observations of the Infrared Triplet of Singly Ionized Calcium
Jeffrey L. Linsky, Richard G. Teske, and Carol W. Wilkinson **11**, 374
- Determination of Solar Doppler Widths by Goldberg's Method
A. R. Dunn and E. C. Olson **16**, 272
- On the Center to Limb Variation of the Separation of the Mg II, H₂ and K₂ Emission Peaks
A. Greve **16**, 328
- Center Limb Observations of Inhomogeneities in the Solar Atmosphere. III: Time Dependent Fine Structure of the Ca II Emission
P. R. Wilson and C. D. Evans **18**, 29
- Measurements of the Limb Darkening in the Forbidden Mg I Line at 4571.1 Å
O. R. White, R. C. Altrock, J. W. Brault, and C. D. Slaughter **23**, 18
- A First Order Analysis of Variations of the Limb Darkening and the Shapes for Solar Fraunhofer Lines
R. G. Athay, B. W. Lites, O. R. White, and J. W. Brault **24**, 18
- Space and Time Variations of the Solar Na D Line Profiles
C. D. Slaughter and A. M. Wilson **24**, 43
- The Empirical Determination of Line Source Functions, β_L -Values, and the Microturbulent and Convective Velocity Components as Functions of Depth in the Photosphere-Chromosphere Transition Region
C. de Jager and L. Neven **25**, 277
- The Formation of Mg I 4571 Å in the Solar Atmosphere. I: A Model Analysis of a One-Dimensional Static Atmosphere
Richard C. Altrock and C. J. Cannon **26**, 21 *Erratum* 29, 285
- The Formation of Mg I 4571 Å in the Solar Atmosphere. III: The Holweger Solar Model
Richard C. Altrock and C. J. Cannon **30**, 31
- Spectroscopic Investigation of the Chromosphere. III: H α Line Profile from the Interior Supergranular Cells
Ulrich Grossmann-Doerth and Marina von Uexküll **30**, 71
- The Solar Neutral Iron Spectrum. I: Measurement of Solar Fe I Line Profiles from Center to Limb
Bruce W. Lites and J. W. Brault **30**, 283
- One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. I: The Violet System of CN(0,0)
George H. Mount, Jeffrey L. Linsky, and Richard A. Shine **32**, 13
- Non-LTE Profiles of the Al I Autoionization Lines
G. D. Finn and J. T. Jefferies **34**, 57
- The Determination of the Velocity Amplitude of the Total Photospheric Motion Field. I: The Use of the Weak and Moderately Weak Lines
N. N. Kondrashova and E. A. Gurtovenko **34**, 291
- Center-to-Limb Profiles of the Aluminum Autoionization Lines in the Solar Spectrum
Howard C. McAllister **35**, 3
- One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. II: CN(1, 1) on the CN Violet System
George H. Mount and Jeffrey L. Linsky **35**, 259
- One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. III: CH(0, 0) λ 3144 of the CH C-X System
George H. Mount and Jeffrey L. Linsky **36**, 287
- The Solar Lithium Abundance. I: Observations of the Solar Lithium Feature at λ 6707.8 Å
James W. Brault and Edith A. Müller **41**, 43
- The Potassium Abundance in the Solar Photosphere
Ramiro de la Reza and Edith A. Müller **43**, 15
- On the Center-to-Limb Variation of Infrared Photospheric Carbon Lines and the Infrared Continuum Intensity around 1.75 μ m
Hubertus Wöhl **43**, 285
- The Ability of Current Micro-Velocity Models to Represent Center-Limb Line Profiles
J. C. Evans and L. Testerman **45**, 41
- Temperature Variations in the Solar Photosphere. III: Kitt Peak Measurements of the Variations of Photospheric Line Profiles with the Heliographic Latitude
B. Caccin, R. Falciani, and A. Donati-Falchi **46**, 29
- Shapes and Centre-to-Limb Variation of the H and K Lines in Sunspot Umbrae
R. B. Teplitskaya and N. M. Firstova **48**, 103

- Solar EUV Emission Line Profiles of Si II and Si III and Their Center to Limb Variations
K. R. Nicolas, G. E. Brueckner, R. Tousey, D. A. Tripp, O. R. White, and R. G. Athay **55**, 305
- Spectral Investigation of the Chromosphere. VI: Observations of H α Close to the Limb
U. Grossmann-Doerth and Marina von Uexküll **55**, 321
- Empirical NLTE Analysis of Solar Spectral Lines. II: The Formation of the Ba II λ 4554 Resonance Line
Robert J. Rutten **56**, 237
- Solar He II (304 Å) and Si XI (303 Å) Line Profiles
G. W. Cushman and W. A. Rense **58**, 299
- The Center-to-Limb Behavior of Ca I λ 6573 and [Ca II] λ 7324
T. R. Ayres and L. Testerman **60**, 19
- On Asymmetries of Solar Spectral Lines
Claude Barambon and Edith A. Müller **64**, 201
- Quiet Sun Observations of the Al I Autoionization Lines λ 1932 and λ 1936
J. W. Cook and O. Kjeldseth Moe **76**, 109
- On the Centre-to-Limb Variation and Latitude Dependence of the Asymmetry and Wavelength Shift of the Solar Line λ 5576
P. N. Brandt and E. H. Schröter **79**, 3
- Space and Time Variations of K I 7699 Solar Line Profile
T. Roca-Cortes, M. Vazquez, and H. Wöhl **88**, 1
- Fraunhofer Line Profiles
A. Keith Pierce **90**, 195
- Asymmetries and Wavelengths of Solar Spectral Lines and the Solar Rotation Determined from Fourier-Transform Spectra
Horst Balthasar **93**, 219
- Limb Effect of Solar Absorption Lines. Observational Method and Results for Fe I 557.6 nm
B. N. Andersen **94**, 49
- Thermal Bifurcation in the Upper Photosphere Inferred from Heterodyne Spectroscopy of OH Rotational Lines
Drake Deming, John J. Hillman, Theodor Kostiuk, Michael J. Mumma, and David M. Zipoy **94**, 57
- Chromosphere**
- Resolution of the H α Double-Limb Controversy
O. R. White and G. W. Simon **3**, 269
- Observations of Solar Chromospheric Fine Structures in the Light of Lyman- α
William A. Sloan **4**, 196
- High-Resolution Photography of the Solar Chromosphere. IV: Size, Shape, and Evolution of the Dark Mottles
R. J. Bray **5**, 323
- Intensity Measurements of Chromospheric Fine Structures in Lyman- α
William A. Sloan **5**, 329
- Spectroheliograms in the Mg II Line at 2795.5 Å
Kerstin Fredga **9**, 358
- No Evidence of Any Solar Limb Brightening in the Range of 3.5 mm-2 cm
A. Tlamicha **10**, 150
- On the Relative Residual Intensities of the Calcium H and K Lines
Jeffrey L. Linsky **11**, 355
- Extreme Ultraviolet Observations of Active Regions in the Chromosphere and the Corona
Robert W. Noyes, George L. Withbroe, and Robert P. Kirshner **11**, 388
- Lifetime of the H α Chromospheric Network
Ernest H. Rogers **13**, 57
- Time and Shape Changes of the Supergranular Network
J. Sýkora **13**, 292
- Morphological Relationships in the Chromospheric H α Fine Structure
Peter Foukal **19**, 59
- L α Measurements during the Solar Eclipse of 12 November 1966
L. H. Weeks and L. G. Smith **20**, 59
- Observations of the 7 March, 1970 Total Solar Eclipse at Wavelengths of 3.2 and 8.3 mm
John P. Hagen, Paul N. Swanson, Robert W. Haas, Fred L. Wefer, and Raymond W. Vogt **21**, 286
- Fine Structure of Solar Magnetic Fields
Harold Zirin **22**, 34

- Time Behavior of Ca II K_{2V} Spectral Features in Non-Magnetic Regions of the Solar Disk
S. Y. Liu, N. R. Sheeley, Jr., and Elske v. P. Smith 23, 289
- Characteristics of the Ca II K-Line Profiles in the Quiet Sun
Sou-Yang Liu and Elske v. P. Smith 24, 301
- Physical Properties of Solar Chromospheric Plages. I: Line Profiles of the Ca II H, K, and Infrared Triplet Lines
Richard A. Shine and Jeffrey L. Linsky 25, 357
- Solar Rotation as Measured in EUV Chromospheric and Coronal Lines
George W. Simon and Robert W. Noyes 26, 8
- Solar Rotation as Determined from OSO-4 EUV Spectroheliograms
A. K. Dupree and W. Henze, Jr. 27, 271
- A Model of the Quiet Solar Atmosphere
J. H. Piddington 27, 402
- Studies of the Solar Chromosphere from Millimetre to Sub-Millimetre Observations. I: Isophotometric Mapping
J. E. Beckman and C. D. Clark 29, 25
- Spectroscopic Investigation of the Chromosphere. III: H α Line Profile from the Interior Supergranular Cells
Ulrich Grossmann-Doerth and Marina von Uexküll 30, 71
- Correlation and Spectral Analysis of Daily Solar Radio Flux
Mohamed El-Raey and Phillip Scherrer 30, 149
- A Chromospheric Temperature Inversion and Its Implications on Millimeter Brightness Distribution
Donald F. Neidig, Jr. 33, 63
- Latitude and Solar-Cycle Dependence of the Height of 9.1 cm Radio Emission
W. Graf and R. N. Bracewell 33, 75
- The Modulations of Trapped Oscillations in the Solar Chromosphere by Magnetic Fields
Y. Nakagawa 33, 87
- Solar Rotation in the Chromosphere and Corona
William Henze, Jr. and A. K. Dupree 33, 425
- The Galloping Chromosphere
C. Sawyer 35, 63
- A Search for 5 min Periodic Structure in Solar 2 cm Emission
Davis D. Sentman and Stanley D. Shawhan 35, 83
- An Interpretation of the Correlation in the Intensity Fluctuations in H and K of Ca II and b₁ of Mg I
K. R. Sivaraman 36, 49
- High Resolution Spectroscopy of the Disk Chromosphere. IV: Evidence for the Propagation and Dissipation of Mechanical Energy in the Chromosphere
L. E. Cram 37, 75
- High Resolution Spectroscopy of the Disk Chromosphere. III: Upward Moving Disturbances as Observed in the Ca II K-Line Wings
J. M. Beckers and G. Artzner 37, 309
- A Three-Component Concept of the Chromosphere and Transition Region
Peter Foukal 37, 317
- Partially Coherent Scattering Models for the Formation of the Chromospheric Ca II K Line
I. M. Vardavas and L. E. Cram 38, 367
- The Hydrogen Balmer Lines and the Structure of the Quiet Solar Chromosphere. I: Observations at the Limb
Pierre Mein and Nicole Mein 40, 317
- Short-Lived Flare-Like Phenomena in the Quiet Chromosphere
David L. Glackin 41, 115
- The Brightness of the Helium D₃ Line in the Undisturbed Chromosphere from Eclipse Observations
R. A. Gulyaev 44, 25
- One Dimensional Aperture Synthesis Observations at 2.8 cm of the Brightness Distribution over the Solar Equator
Ambretta Donati Falchi, Marcello Felli, and Gianni Tofani 48, 59
- Velocity Waves in the Quiet Solar Chromosphere
Nicole Mein and Pierre Mein 49, 231
- Observation of a Coronal Hole at 85 GHz
M. R. Kundu and Sou-Yang Liu 49, 267
- Wave Propagation in the Quiet Solar Chromosphere
N. Mein 52, 283

Chromospheric Rotation during 1972-73, Years of Declining Activity

E. Antonucci, L. Azzarelli, P. Casalini, and S. Cerri **53**, 519

Chromospheric Oscillations Observed in the Line C II $\lambda 1336$ with OSO-8

Eric G. Chipman **55**, 277

Activity in the Quiet Sun. I: Observations of Macrospicules in H α and D $_3$

Barry J. LaBonte **61**, 283

The He I 10830 Å Chromosphere and Filament-Associated Structures

Marie K. McCabe and D. L. Mikey **73**, 59

Chromosphere, Active (*see Chromosphere; Active Regions*)

Chromosphere, Fibrils (*see Chromosphere, Structures*)

Chromosphere, Heating (*see Heating, Atmospheric*)

Chromosphere, Magnetic Fields (*see Magnetic Fields, Chromosphere*)

Chromosphere, Models

A Model of the Inhomogeneous Chromosphere of the Sun

V. A. Krat **1**, 191

The Bilderberg Model of the Photosphere and Low Chromosphere

O. Gingerich and C. de Jager **3**, 5

Emission Gradients in the Continuum at the Sun's Limb

Eijiro Hiei and James E. Faller **3**, 513

Emission Cores in H and K Lines. IV: Center-to-Limb Variation

R. Grant Athay and A. Skumanich **4**, 176

Boundary Conditions on Model Solar Chromospheres

R. Grant Athay **9**, 51

Analysis of the Chromospheric Hydrogen Spectrum at the 1962 Eclipse

William Henze, Jr. **9**, 65

Ca II Resonance Lines in Non-Homogeneous Chromospheres

Herbert A. Beebe and Hollis R. Johnson **10**, 79

On the Relative Residual Intensities of the Calcium H and K Lines

Jeffrey L. Linsky **11**, 355

On Frequency and Strength of Shock Waves in the Solar Atmosphere

Peter Ulmschneider **12**, 403

Convective Instability of a Model Chromosphere

Richard J. Defouw **14**, 42

The Solar Lyman Continuum and the Structure of the Solar Chromosphere

Robert W. Noyes and Wolfgang Kalkofen **15**, 120

Interpretation of the Solar Continuum from 1680 to 600 Å. Model of the Transition Region Photosphere-Chromosphere and of the Chromosphere

Yvette Cuny **16**, 293

Calculations of Two-Dimensional Models of the Lower Solar Chromosphere

C. J. Cannon **16**, 314

Formation of the Ca II K-Line Core with Arbitrary Temperature Minima

Herbert A. Beebe **17**, 304

A Model of the Chromosphere and Transition Zone. Radio and UV Emission of These Layers

E. E. Dubov **18**, 43

The Harvard-Smithsonian Reference Atmosphere

O. Gingerich, R. W. Noyes, W. Kalkofen, and Y. Cuny **18**, 347

Inhomogeneities in the Solar Atmosphere from the Ca II Infra-Red Lines

Pierre Mein **20**, 3

Nature of the Fine Structure of the Middle Chromosphere

S. B. Pikel'ner **20**, 286

The Effect of Two-Dimensional Macroscopic Velocity Fields on Models of the Lower Solar Chromosphere

C. J. Cannon **21**, 82

Inhomogeneous Structure of the Solar Chromosphere from Lyman-Continuum Data

J. E. Vernazza and R. W. Noyes **22**, 358

- On the Temperature of the Helium Emission Regions in the Solar Atmosphere
R. A. Gulyaev 24, 72
- On the Adjustment of Outer Solar Layer Models
I. A. Krinberg and R. B. Teplitskaya 25, 305
- Equator-Pole Differences in the Solar Chromosphere from Lyman-Continuum Data
J. E. Vernazza and R. W. Noyes 26, 335
- Spectral Investigation of the Chromosphere. II: The Nature of the Mottles and a Model of the Overall Structure
Ulrich Grossmann-Doerth and Marina von Uexküll 28, 319
- Studies of the Solar Chromosphere from Millimetre and Sub-Millimetre Observations. II: Simple Models of the Lower Chromosphere
J. E. Beckman, C. D. Clark, and J. Ross 31, 319
- The Solar Neutral Iron Spectrum. II: Profile Synthesis of Representative Fe I Fraunhofer Lines
Bruce W. Lites 32, 283
- A Chromospheric Temperature Inversion and Its Implications on Millimeter Brightness Distribution
Donald F. Neidig, Jr. 33, 63
- An Empirical Interpretation for the Time Evolution of the Ca II K Line
Sou-Yang Liu and Andrew Skumanich 38, 109
- Interpretation of H α Contrast Profiles of Chromospheric Fine Structures
L. E. Cram 42, 53
- Spectroscopic Investigation of the Chromosphere. IV: A Reassessment of the Cloud Model
C. J. Durrant 44, 41
- Helium Emission in the Middle Chromosphere
M. A. Livshits, L. A. Akimov, I. L. Belkina, and N. P. Dyatel 49, 315
- Radiation Loss and Mechanical Heating in the Low Solar Chromosphere
F. Praderie and R. N. Thomas 50, 333
- Physical Processes Determining the Chromospheric Temperature Distribution
Stuart D. Jordan 51, 51
- An Empirical, Statistical Model for the Formation of the Cores of Chromospheric Fraunhofer Lines
Z. Suemoto 54, 3
- Physical Properties of Solar Chromospheric Plages. III. Models Based on Ca II and Mg II Observations
Walter L. Kelch and Jeffrey L. Linsky 58, 37
- Some Comments on Suemoto's Paper 'An Empirical, Statistical Model for the Formation of the Cores of Chromospheric Fraunhofer Lines'
L. E. Cram, C. J. Durrant, and U. Grossmann-Doerth 58, 279
- The Radiative Relaxation Time in the Chromosphere
R. G. Giovanelli 59, 293
- Does H⁺ Truly Cool the Solar Chromosphere?
Thomas R. Ayres 68, 125
- Microwave Solar Limb Brightening
I. A. Ahmad and M. R. Kundu 69, 273
- A Mechanism for Solar Ultraviolet Flux Variability
Kenneth H. Schatten and Donald F. Heath 73, 13
- On the Mass Motions and the Atmospheric States of Moustaches
Reizaburo Kitai 87, 135
- Mass Motions Due to Shock Propagations along Low-Lying Loops in the Solar Atmosphere. On the Formation of Fibrils
Yoshinori Suematsu 98, 67
- The Chromosphere and Transition Region - Current Status and Future Directions of Models (Invited Review Paper)
R. Grant Athay 100, 257
- Chromosphere, Mottles (see Chromosphere, Structures)**
- Chromosphere, Network**
- On a Difference of the Chromospheric Background Intensity between the Equatorial and Polar Regions of the Sun
C. J. Macris 1, 101
- On the Correction for Foreshortening for Ca Plages
G. Godoli and B. C. Monsignori Fossi 1, 148

Observations of Small-Scale Solar Magnetic Fields

N. R. Sheeley, Jr. **1**, 171

On the Motions of Chromospheric Fine-Structure in a Weak Plage

J. B. Zirker **1**, 204

Solar Source of the Interplanetary Sector Structure

John M. Wilcox and Norman F. Ness **1**, 437

La diffusion des spicules dans la couronne solaire

Z. Mouradian **2**, 258

Coronal Polar Plumes

Gordon Newkirk, Jr. and John Harvey **3**, 321

The Intensity, Velocity and Magnetic Structure of a Sunspot Region. I: Observational Technique, Properties of Magnetic Knots

J. M. Beckers and E. H. Schröter **4**, 142

High-Resolution Photography of the Solar Chromosphere. II: The Relationship between Chromospheric and Photospheric Faculae

R. J. Bray **4**, 318

On the Development of Magnetic Fields in Active Regions

M. K. V. Bappu, V. M. Grigorjev, and V. E. Stepanov **4**, 409

Photospheric Brightness Differences Associated with the Solar Supergranulation

Jacques M. Beckers **5**, 309

The Photospheric Network

G. A. Chapman and N. R. Sheeley, Jr. **5**, 442

Solar Velocity Fields: 5-Min Oscillations and Supergranulation

Andrew S. Tanenbaum, John M. Wilcox, Edward N. Frazier, and Robert Howard **9**, 328

The Radio-Emission and Ca-Brightness of Two Outstanding Active Regions during Their Lifetime

G. Feix **10**, 184

Long Term Observations of the $H\alpha$ Chromospheric Network

T. J. Janssens **11**, 222

New Observational Results for the Solar Chromosphere

G. J. Banos and C. J. Macris **12**, 106

The Chromospheric Magnetograph

Glenn J. Veeder and Harold Zirin **12**, 391

On the Behaviour of the Fe II 3938-Line in Plages Near the Limb

O. Bergqvist **12**, 416

Lifetime of the $H\alpha$ Chromospheric Network

Ernest H. Rogers **13**, 57

Vertical Velocities and Horizontal Wave Propagation in the Solar Photosphere

Steven Musman and David M. Rust **13**, 261

Time and Shape Changes of the Supergranular Network

J. Šýkora **13**, 292

Chromospheric Heating above Supergranular Boundaries

Robert W. Milkey **14**, 62

Vertical Structure of Plages

M. N. Stoyanova **15**, 349

K Emission-Line Widths and the Solar Chromosphere

M. K. V. Bappu and K. R. Sivaraman **17**, 316

K-Coronal Enhancements and Chromospheric Plages

Richard T. Hansen, Shirley F. Hansen, Charles J. Garcia, and Dorothy E. Trotter **18**, 271

On the Structure of Solar Faculae

V. A. Krat and M. N. Stojanova **20**, 57

A Comparison of the Intensity Variations of the CN Photospheric and K Line Chromospheric Network with Time

S. Y. Liu and N. R. Sheeley, Jr. **20**, 282

A Note on Chromospheric Fine Structure at Active Region Polarity Boundaries

Stephen W. Prata **20**, 310

Multi-Channel Magnetograph Observations. III: Faculae

Edward N. Frazier **21**, 42

- A Comparison between Mg II and Ca II Spectroheliograms
Kerstin Fredga **21**, 60
- A Comparison between the Helium 10 830 Å and the Hydrogen H α Chromospheres
R. G. Giovanelli, D. N. B. Hall, and J. W. Harvey **22**, 53
- Intensity Oscillation in H α -Fine Structure
Arvind Bhatnagar and Katsuo Tanaka **24**, 87
- The Relations between Chromospheric Features and Photospheric Magnetic Fields
Edward N. Frazier **24**, 98
- EUV Observations of the Chromospheric Network
E. M. Reeves and W. H. Parkinson **24**, 113
- The Velocity Fields in Active Regions
Robert Howard **24**, 123
- Magnetic Fields and Helium-D₃ Spectroheliograms
G. A. Chapman **24**, 288
- Characteristics of the Ca II K-Line Profiles in the Quiet Sun
Sou-Yang Liu and Elske v. P. Smith **24**, 301
- Physical Properties of Solar Chromospheric Plages. I: Line Profiles of the Ca II H, K, and Infrared Triplet Lines
Richard A. Shine and Jeffrey L. Linsky **25**, 357
- Velocity Oscillations in Solar Plage Regions
Cheng-Jen Chen and Paul S. Lykoudis **25**, 380
- Some Observational Results on Moustaches
Anton Bruzek **26**, 94
- The Spectra of Near-Vertical Structures on the Solar Disk
O. R. White **27**, 27
- Ca II K Emission Arches
H. A. Beebe and Hollis R. Johnson **27**, 34
- Flares, Magnetic Configurations, and Magnetic Energy Release
T. J. Janssens **27**, 149
- Energy Balance in the Chromosphere-Corona Transition Region
Roger A. Kopp **27**, 373
- Width of Emission Cores of the Line K Ca II in Sunspots
R. B. Teplitskaya and S. A. Efendieva **28**, 369
- Videomagnetograph Studies of Solar Magnetic Fields. I: Magnetic Field Diffusion in Weak Plage Regions
Robert C. Smithson **29**, 365
- The Topological Association of H α Structures and Magnetic Fields
Y. Nakagawa, M. A. Raadu, and J. W. Harvey **30**, 421
- The Location of Exploding Granules
Marc S. Allen and Steven Musman **32**, 311
- Lifetimes of Enhanced Chromospheric Network Features near Active Regions
Stephen W. Prata **33**, 119
- A Three-Component Concept of the Chromosphere and Transition Region
Peter Foukal **37**, 317
- Studies of K Line Filtergrams
H. Zirin **38**, 91
- A Diffuse Component in the H α Chromospheric Network
R. G. Giovanelli **38**, 117
- First Phase of Active Regions and Their Relation to the Chromospheric Network
R. Born **38**, 127
- The Fine-Structure of the Solar Atmosphere in the Far Ultraviolet
Guenter E. Brueckner and John-David F. Bartoe **38**, 133
- Physical Properties of Solar Chromospheric Plages. II: Chromospheric Plage Models
Richard A. Shine and Jeffrey L. Linsky **39**, 49
- High-Resolution Photography of the Solar Chromosphere. XV: Preliminary Observations in Fe I λ 6569.2
R. J. Bray, R. E. Loughhead, and E. J. Tappere **39**, 323
- Differential Rotation, Meridional and Random Motions of the Solar Ca⁺ Network
E. H. Schröter and H. Wöhl **42**, 3

A Model of the Supergranulation Network and of Active-Region Plages

J. O. Stenflo 42, 79

Comments on the Course of Solar Activity during the Declining Phase of Solar Cycle 20 (1970-74)

H. W. Dodson and E. R. Hedeman 42, 121

Emerging Flux Regions

David L. Glackin 43, 317

Surface Reynolds Stresses Determined from the Analysis of Facular Motions and the Maintenance of the Sun's Differential Rotation

G. Belvedere, G. Godoli, S. Motta, L. Paternò, and R. A. Zappalà 46, 23

The EUV Chromospheric Network in the Quiet Sun

E. M. Reeves 46, 53 *Errata/Replacement Figure: Fig. 10 - 53, 547*

A Study of Supergranulation Using a Diode Array Magnetograph

Simon P. Worden and George W. Simon 46, 73

Frequency of Coronal Transients and Solar Activity

E. Hildner, J. T. Gosling, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 48, 127

Differential Rotation and Giant Cell Circulation of Solar Ca⁺-Network

E. H. Schröter and H. Wöhl 49, 19

Velocity Waves in the Quiet Solar Chromosphere

Nicole Mein and Pierre Mein 49, 231

The Effects of Partial Redistribution on Facular K Line Profiles

J. N. Heasley, F. Kneer, and G. A. Chapman 52, 309

A Possible Edge Effect in Enhanced Network

Harrison P. Jones and Douglas R. Brown 52, 337

The Calcium K-Line Network in Coronal Holes

K. A. Marsh 52, 343

A Comparison of He II 304 Å and He I 10830 Å Spectroheliograms

J. W. Harvey and N. R. Sheeley, Jr. 54, 343

Medium Resolution EUV Observations and Network Structure

Nirupama Raghavan 54, 363

Spectral Investigation of the Chromosphere. VI: Observations of H α Close to the Limb

U. Grossmann-Doerth and Marina von Uexküll 55, 321

Motions in Solar Magnetic Tubes. I: The Downflow

R. G. Giovanelli and C. Slaughter 57, 255

Area Variation with Temperature of Supergranule Network Features in the Solar Transition Zone

Edward J. Eadon and Donald E. Billings 58, 31

Physical Properties of Solar Chromospheric Plages. III. Models Based on Ca II and Mg II Observations

Walter L. Kelch and Jeffrey L. Linsky 58, 37

Ubiquitous Chromospheric Structures Observed in the Quiet Sun at Millimeter and Centimeter Wavelengths

Kenneth R. Lang 58, 337

Ephemeral Region Flares and the Diffusion of the Network

K. A. Marsh 59, 105

Observations of the Mg I and II Resonance Lines in an Active Region

Marc S. Allen and Howard C. McAllister 60, 251

Supergranular Line Profile Variation of Mg I λ 2852

Marc S. Allen 60, 265

Post-Flare H α Plage Formation

A. Bruzek 61, 35

Measurements of the Magnetic Field and the Gradient of Temperature in the Solar Atmosphere above a Flocculus Using Radio Observations

V. M. Bogod and G. B. Gelfreikh 67, 29

Faculae, Filigree and Calcium Bright Points

P. R. Wilson 69, 9

Propagation of Magnetically Guided Acoustic Shocks in the Solar Chromosphere

P. Foukal and M. Smart 69, 15

High Resolution Spectroscopy of the Disk Chromosphere. VII: Oscillations in Plage and Quiet Sun Regions

D. T. Woods and L. E. Cram 69, 233

OSO-8 Observations of Ca II H and K, Mg II h and k, L α and L β above a Sunspot

F. Kneer, G. Scharmer, W. Mattig, A. Wyller, G. Artzner, P. Lemaire, and J. C. Vial 69, 289

- The Size Dependence of Contrasts and Numbers of Small Magnetic Flux Tubes in an Active Region
H. C. Spruit and C. Zwaan 70, 207
- A Dependence on Solar Cycle on the Size of the Ca⁺ Network
Jagdev Singh and M. K. V. Bappu 71, 161
- Some Results Concerning the Automatic Photometry of Photographic Chromospheric Images
L. Azzarelli, P. L. Casalini, S. Cerri, R. Falciani, G. Roberti, and L. A. Smaldone 71, 247
- A Mechanism for Solar Ultraviolet Flux Variability
Kenneth H. Schatten and Donald F. Heath 73, 13
- On the Size and Structure of Bright Solar Ca⁺-Network Cells Depending on the Heliographic Position
Rüdiger Brune and Hubertus Wöhl 75, 75
- Time Variability and Structure of Quiet Sun Sources at 6 cm Wavelength
F. T. Erskine and M. R. Kundu 76, 221
- Structure and Physics of Solar Faculae. I: Principles and Observational Procedures from Ground-Based Instruments and OSO-8 Satellite
S. Dumont, Z. Mouradian, and J.-C. Pecker 78, 71
- Ca II K₂ Spectral Features and Their Relation to Small-Scale Photospheric Magnetic Fields
K. R. Sivaraman and W. C. Livingston 80, 227
- Structure and Physics of Solar Faculae. III: The Densities in the Chromosphere-Corona Transition Zone
S. Dumont, Z. Mouradian, J.-C. Pecker, J.-C. Vial, and E. Chipman 83, 27
- Origin of the Weakening of EUV Emission Lines Formed in the Chromosphere-Corona Transition Zone
Takara Nishikawa 85, 65
- Visibility of Facular Fields in Mg I b-Lines
A. A. Galal 85, 123
- Network to Cell Contrast at Microwaves
F. Chiuderi Drago, M. R. Kundu, and E. J. Schmahl 85, 237
- Velocity Fields of Individual Supergranules
G. Küveler 88, 13
- H and K Ca II Plage Profiles Obtained with a Fourier Transform Spectrometer
P. Lemaire 88, 31
- A Quantitative Study of Ca II Network Geometry
Nirupama Raghavan 89, 35
- On the Relation between Chromospheric and Photospheric Fine Structure in an Active Region
R. Kitai and R. Müller 90, 303
- Structure and Physics of Solar Faculae. IV: Chromospheric Granular Structure
C. Fang, Z. Mouradian, G. Banos, S. Dumont, and J. C. Pecker 91, 61
- Ca II K Bright Points and the Solar Cycle
K. R. Sivaraman 94, 235
- Variations in the Solar Rotation Rate Derived from Ca⁺ K Plage Areas
Jagdev Singh and T. P. Prabhu 97, 203
- VLA Observations of a Radio Plage at Centimeter Wavelengths
R. K. Shevgaonkar and M. R. Kundu 98, 119

Chromosphere, Quiet (*see Chromosphere*)

Chromosphere, Radio Emission (*see Chromosphere*)

Chromosphere, Spectrum

- The Solar H and K Lines of Ionized Calcium
J. B. Zirker 3, 164
- A Measurement of the Solar H and K Profiles
O. R. White and Z. Suemoto 3, 523
- Spectral Observations of Spicules at Two Heights in the Solar Chromosphere
Jay M. Pasachoff, Robert W. Noyes, and Jacques M. Beckers 5, 131
- On the Chromospheric Observations at the 1962 Eclipse
William Henze, Jr. 9, 56
- Analysis of the Chromospheric Hydrogen Spectrum at the 1962 Eclipse
William Henze, Jr. 9, 65
- Interpretation of XUV Spectroheliograms
Harold Zirin 9, 77

On Some Flare-Sensitive High Photospheric and Low Chromospheric Lines
Yngve Öhman **10**, 178

On the Relative Residual Intensities of the Calcium H and K Lines
Jeffrey L. Linsky **11**, 355

Solar C II Resonance Line Profiles

R. A. Berger, E. C. Bruner, Jr., and R. J. Stevens **12**, 370

The Observation of the Chromospheric Fine Structure by the 53-cm Lyot Coronagraph
G. M. Nikolsky **12**, 379

A Search for the K-Line of Ca II during the Eclipse of 7 March 1970
Charles D. Evans **14**, 157

The Solar Lyman Continuum and the Structure of the Solar Chromosphere
Robert W. Noyes and Wolfgang Kalkofen **15**, 120

A Three-Component Model for the Formation of the Chromospheric Ca II K Line
P. R. Wilson **15**, 139

A Comparison of Computed and Observed Line Profiles and Flash Intensities in the Photosphere-Chromosphere Transition Region
E. L. J. van Dessel **15**, 322

Vertical Structure of Plages

M. N. Stoyanova **15**, 349

$\lambda\lambda 4097.3$ N III Emission in the Chromospheric Spectrum?
D. L. Lambert **16**, 336

K Emission-Line Widths and the Solar Chromosphere
M. K. V. Bappu and K. R. Sivaraman **17**, 316

The Abundance of Helium in Prominences and in the Chromosphere
Tadashi Hirayama **19**, 384

Spectral Lines from Photosphere to Chromosphere, Observed during the March 1970 Eclipse: A First Comparison with Theory

J. Houtgast, O. Namba, R. J. Rutten, and J. W. Wjibenga **21**, 281

On the Coronal Lines in the Chromosphere at the 1970 Eclipse
M. Kanno, T. Tsubaki, and H. Kurokawa **21**, 314

Eclipse Observations in the Rocket Ultraviolet

T. L. J. Jones, W. H. Parkinson, R. J. Speer, and C. Yang **21**, 372

Some New Dy II Identifications in the Solar Spectrum
J. C. Howard **24**, 32

The Chromosphere in Continuum Emission Observed at the Total Solar Eclipse on 7 March 1970
Mitsugu Makita **24**, 59

Ionized Helium in Prominences and in the Chromosphere
Tadashi Hirayama **24**, 310

Raies nouvelles observées lors de l'éclipse du 7 Mars 1970
Z. Mouradian **24**, 368

High Resolution Spectroscopy of the Disk Chromosphere. II: Time Sequence Observations of Ca II H and K Emissions

P. R. Wilson, D. E. Rees, J. M. Beckers, and D. R. Brown **25**, 86

Physical Properties of Solar Chromospheric Plages. I: Line Profiles of the Ca II H, K, and Infrared Triplet Lines
Richard A. Shine and Jeffrey L. Linsky **25**, 357

The Spectra of Near-Vertical Structures on the Solar Disk
O. R. White **27**, 27

Ca II K Emission Arches

H. A. Beebe and Hollis R. Johnson **27**, 34

Observed Oddities in the Lines H, K, b and H β

J. W. Evans and C. P. Catalano **27**, 299

Suggested Interpretation of the Correlations in Intensity Fluctuations in the Lines Ca II H and K, Magnesium b and Hydrogen H β

Richard N. Thomas **27**, 303

The He⁺ $\lambda 4686$ Line in the Low Chromosphere

S. P. Worden, J. M. Beckers, and T. Hirayama **28**, 27

- Extreme Ultraviolet Emission from Chromospheric Inhomogeneities. An Analysis of the Extreme Ultraviolet Flash Spectrum of the Sun
G. E. Brueckner and K. R. Nicolas 29, 301
- A Spectroscopic Study of Solar Spicules in $H\alpha$, $H\beta$ and K
Constantine E. Alissandrakis 32, 345
- Line-Intensities in the Photosphere-Chromosphere Transition Region. II: Observational Material from the 1961 Eclipse at Brač
E. L. van Dessel, J. Houtgast, and D. Koelbloed 33, 375
- Non-Thermal Line Broadening in the Solar Chromosphere
R. A. E. Fosbury 34, 309
- An Interpretation of the Correlation in the Intensity Fluctuations in H and K of Ca II and b_1 of Mg I
K. R. Sivaraman 36, 49
- The Continuum of the Extreme Limb and the Chromosphere at the 1970 Eclipse
H. Kurokawa, K. Nakayama, T. Tsubaki, and M. Kanno 36, 69
- High Resolution Spectroscopy of the Disk Chromosphere. IV: Evidence for the Propagation and Dissipation of Mechanical Energy in the Chromosphere
L. E. Cram 37, 75
- Detection of Small Scale Structure in Metal Lines at the Extreme Solar Limb
W. C. Livingston and O. R. White 39, 289
- The Hydrogen Balmer Lines and the Structure of the Quiet Solar Chromosphere. I: Observations at the Limb
Pierre Mein and Nicole Mein 40, 317
- Emission of Helium in Prominences and the Chromosphere
N. N. Morozhenko 42, 71
- A Time Evolution Study of Limb Spicule Spectra
Kenneth R. Krall, R. J. Bessey, and Jacques M. Beckers 46, 93
- Helium Emission in the Middle Chromosphere
M. A. Livshits, L. A. Akimov, I. L. Belkina, and N. P. Dyatel 49, 315
- An Empirical, Statistical Model for the Formation of the Cores of Chromospheric Fraunhofer Lines
Z. Suemoto 54, 3
- Solar EUV Emission Line Profiles of Si II and Si III and Their Center to Limb Variations
K. R. Nicolas, G. E. Brueckner, R. Tousey, D. A. Tripp, O. R. White, and R. G. Athay 55, 305
- Some Comments on Suemoto's Paper 'An Empirical, Statistical Model for the Formation of the Cores of Chromospheric Fraunhofer Lines'
L. E. Cram, C. J. Durrant, and U. Grossmann-Doerth 58, 279
- Plane Grating as Polar Heliostat in Eclipse Observations of the Chromosphere and Prominences with Special Application to Studies of Doppler-Widened Thomson-Scattered Fraunhofer Lines
Yngve Öhman 62, 407
- Observations of Chromospheric Lines from OSO-8
Ulrich Grossmann-Doerth, Franz Kneer, Marina v. Uexküll, Guy E. Artzner, and Jean Claud Vial 66, 3
- Are Plasma Satellites Present among Chromospheric Lines?
Yngve Öhman 85, 53
- On the Balmer : Paschen Ratio in Prominences
Jay M. Pasachoff, Eric J. Pilger, and Stephen R. Platt 89, 31
- Chromosphere, Stellar (see Stellar Physics)**
- Chromosphere, Structures**
- Flare Positions Relative to Photospheric Magnetic Fields
Sara F. Smith and Harry E. Ramsey 2, 158
- Observations of Solar Chromospheric Fine Structures in the Light of Lyman- α
William A. Sloan 4, 196
- High-Resolution Photography of the Solar Chromosphere. IV: Size, Shape, and Evolution of the Dark Mottles
R. J. Bray 5, 323
- Intensity Measurements of Chromospheric Fine Structures in Lyman- α
William A. Sloan 5, 329
- The Bright Streaks in the $H\alpha$ Disk Chromosphere
Ravi Bhavilai 5, 471

- High-Resolution Photography of the Solar Chromosphere. V: The Fibrils around Isolated Sunspots
R. E. Loughhead **5**, 489
- Interpretation of XUV Spectroheliograms
Harold Zirin **9**, 77
- On the Chromospheric Velocity Field in Sunspot Regions
E. Haugen **9**, 88
- Spectroheliograms in the Mg II Line at 2795.5 Å
Kerstin Fredga **9**, 358
- High-Resolution Photography of the Solar Chromosphere. VI: Properties of the Bright Mottles
R. J. Bray **10**, 63
- High-Resolution Photography of the Solar Chromosphere. VII: Structure of the Low Chromosphere
R. E. Loughhead **10**, 71
- Lifetime of the Dark and Bright Mottles of the Solar Chromosphere
C. J. Macris and C. E. Alissandrakis **11**, 59
- Long Term Observations of the H α Chromospheric Network
T. J. Janssens **11**, 222
- New Observational Results for the Solar Chromosphere
G. J. Banos and C. J. Macris **12**, 106
- The Observation of the Chromospheric Fine Structure by the 53-cm Lyot Coronagraph
G. M. Nikolsky **12**, 379
- The Chromospheric Magnetograph
Glenn J. Veeder and Harold Zirin **12**, 391
- Lifetime of the H α Chromospheric Network
Ernest H. Rogers **13**, 57
- On the Ratio between the Mechanical Fluxes in- and outside the Solar Chromospheric Mottles
C. de Jager and C. De Loore **13**, 126
- Radio Maps of the Sun at $\lambda = 1.95$ cm
Franca Chiuderi Drago and Marcello Felli **14**, 171
- The Solar Lyman Continuum and the Structure of the Solar Chromosphere
Robert W. Noyes and Wolfgang Kalkofen **15**, 120
- Solar Enhancements at 1.2 mm Wavelength
J. E. Beckman and C. D. Clark **16**, 87
- K Emission-Line Widths and the Solar Chromosphere
M. K. V. Bappu and K. R. Sivaraman **17**, 316
- High-Resolution Photography of the Solar Chromosphere. IX: Limb Observations of High Spectral Purity
R. E. Loughhead and E. J. Tappere **19**, 44
- Morphological Relationships in the Chromospheric H α Fine Structure
Peter Foukal **19**, 59
- On the Topology of Filaments and Chromospheric Fibrils near Sunspots
Y. Nakagawa, M. A. Raadu, D. E. Billings, and D. McNamara **19**, 72
- Spectral Investigation of Chromospheric Fine Structure
Ulrich Grossmann-Doerth and Marina von Uexküll **20**, 31
- A Study of the Fine Structure of the Solar Chromosphere at the Limb
C. E. Alissandrakis and C. J. Macris **20**, 47
- The Topology of Force-Free Magnetic Field near Bipolar Sunspots
M. A. Raadu and Y. Nakagawa **20**, 64
- Nature of the Fine Structure of the Middle Chromosphere
S. B. Pikel'ner **20**, 286
- H α Fine Structure and the Chromospheric Field
Peter Foukal **20**, 298
- A Note on Chromospheric Fine Structure at Active Region Polarity Boundaries
Stephen W. Prata **20**, 310
- Observation on the Detailed Correspondence of Magnetic and H α Features
Stephen A. Schoolman **21**, 57
- A Comparison between Mg II and Ca II Spectroheliograms
Kerstin Fredga **21**, 60

- Chromospheric Absorbing Features Promising the Appearance and the Development of an Active Center
M.-J. Martres and I. Soru-Escaut **21**, 137
- High Resolution Observations of the Chromosphere at mm and cm Wavelengths
M. Simon **21**, 297
- Fine Structure of Solar Magnetic Fields
Harold Zirin **22**, 34
- A Comparison between the Helium 10 830 Å and the Hydrogen H α Chromospheres
R. G. Giovanelli, D. N. B. Hall, and J. W. Harvey **22**, 53
- Multi-Component Models for the Formation of the Chromospheric Ca II K Line. II: The Effect of Velocity Fields
L. E. Cram **22**, 375
- Time Behavior of Ca II K₂, Spectral Features in Non-Magnetic Regions of the Solar Disk
S. Y. Liu, N. R. Sheeley, Jr., and Elske v. P. Smith **23**, 289
- H α Mottles
Constance Sawyer **24**, 79
- Intensity Oscillation in H α -Fine Structure
Arvind Bhatnagar and Katsuo Tanaka **24**, 87
- The Relations between Chromospheric Features and Photospheric Magnetic Fields
Edward N. Frazier **24**, 98
- Magnetic Fields and Helium-D₃ Spectroheliograms
G. A. Chapman **24**, 288
- High Resolution Spectroscopy of the Disk Chromosphere. I: Observing Procedures
J. M. Beckers, H. A. Mauter, G. R. Mann, and D. R. Brown **25**, 81
- On Practical Representation of Magnetic Field
Y. Nakagawa and M. A. Raadu **25**, 127
- Solar Bright Points in 3840 Å and H α
Joan Vorpahl and Thomas Pope **25**, 347
- Some Observational Results on Moustaches
Anton Bruzek **26**, 94
- Comments on the Paper 'Fine Structure of Solar Magnetic Fields' by H. Zirin
Edward N. Frazier **26**, 142
- Response to Dr Frazier's Comments
Harold Zirin **26**, 145
- Reply to 'The Relation between Chromospheric Features and Photospheric Magnetic Fields' by E. N. Frazier
Peter Foukal and Harold Zirin **26**, 148
- On the Size of the Structure Elements in the Solar Chromosphere
V. A. Krat **27**, 39
- High Spatial Resolution Photographs of the Sun in L α Radiation
D. K. Prinz **28**, 35
- Spectral Investigation of the Chromosphere. II: The Nature of the Mottles and a Model of the Overall Structure
Ulrich Grossmann-Doerth and Marina von Uexküll **28**, 319
- Studies of the Solar Chromosphere from Millimetre to Sub-Millimetre Observations. I: Isophotometric Mapping
J. E. Beckman and C. D. Clark **29**, 25
- High-Resolution Photography of the Solar Chromosphere. X: Physical Parameters of H α Mottles
R. J. Bray **29**, 317
- High-Resolution Photography of the Solar Chromosphere. XI: H α Contrast Profiles of Mottles near the Limb
R. E. Loughhead **29**, 327
- Comments on the Zirin-Frazier Controversy
Chung-Chieh Cheng, K. J. H. Phillips, and Alistair M. Wilson **29**, 383
- Some Comments on the Photographic Subtraction Method of Determining Chromospheric Velocities
R. J. Bray **30**, 335
- The Topological Association of H α Structures and Magnetic Fields
Y. Nakagawa, M. A. Raadu, and J. W. Harvey **30**, 421
- Outflow of Chromospheric Emission Features from the Rim of a Sunspot
Sou-Yang Liu **31**, 127
- Solar Spicules Observed through a K-Filter
G. Banos **32**, 337

A Spectroscopic Study of Solar Spicules in $H\alpha$, $H\beta$ and K

Constantine E. Alissandrakis 32, 345

A Preliminary Study of the Extreme Ultraviolet Spectroheliograms from Skylab

R. Tousey, J.-D. F. Bartoe, J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, N. R. Sheeley, Jr., R. J. Schumacher, and M. E. VanHoosier 33, 265

The Solar Filigree

Richard B. Dunn and Jack B. Zirker 33, 281

Fine Structure of the Sun at 1.3 cm Wavelength

M. R. Kundu and T. Velusamy 34, 125

High-Resolution Photography of the Solar Chromosphere. XII: An Attempt to Measure Vertical Velocities of

 $H\alpha$ Bright Mottles Beyond the Limb

R. E. Loughhead 35, 55

1.0 Arc Second Structure on the Sun at 3.71 cm Wavelength

Robert W. Hobbs, Stuart D. Jordan, William J. Webster, Jr., Stephen P. Maran, and Howard M.

Caulk 36, 369

High Resolution Spectroscopy of the Disk Chromosphere. III: Upward Moving Disturbances as Observed in the

Ca II K-Line Wings

J. M. Beckers and G. Artzner 37, 309

A Three-Component Concept of the Chromosphere and Transition Region

Peter Foukal 37, 317

High-Resolution Photography of the Solar Chromosphere. XIV: Morphology of Sunspots at the Chromospheric Level

R. E. Loughhead 38, 77

Studies of K Line Filtergrams

H. Zirin 38, 91

A Diffuse Component in the $H\alpha$ Chromospheric Network

R. G. Giovanelli 38, 117

The Fine-Structure of the Solar Atmosphere in the Far Ultraviolet

Gunter E. Brueckner and John-David F. Bartoe 38, 133

High-Resolution Photography of the Solar Chromosphere. XIII: $H\alpha$ Contrast Profiles of Sunspot Fibrils

R. J. Bray 38, 377

Acceleration of Electrons in Absence of Detectable Optical Flares Deduced from Type III Radio Bursts, $H\alpha$ Activity and Soft X-Ray Emission

S. R. Kane, R. W. Kreplin, M.-J. Martres, M. Pick, and I. Soru-Escout 38, 483

Detection of Small Scale Structure in Metal Lines at the Extreme Solar Limb

W. C. Livingston and O. R. White 39, 289

Interpretation of $H\alpha$ Contrast Profiles of Chromospheric Fine Structures

L. E. Cram 42, 53

Changes of the $H\alpha$ Fibril Pattern during Solar Flares

A. Bruzek 42, 215

Les bulles chromosphériques

Zadig Mouradian et Guy Simon 42, 311

The Work of the Diode Array: He 10830 Observations of Spicules and Subflares

David M. Rust and Charles A. Bridges III 43, 129

Emerging Flux Regions

David L. Glackin 43, 317

Spectroscopic Investigation of the Chromosphere. IV: A Reassessment of the Cloud Model

C. J. Durrant 44, 41

Wave Systems in the Chromosphere

R. Giovanelli 44, 299

The Calculation of Force-Free Fields from Discrete Flux Distributions

N. R. Sheeley, Jr. and J. W. Harvey 45, 275

A Time Evolution Study of Limb Spicule Spectra

Kenneth R. Krall, R. J. Bessey, and Jacques M. Beckers 46, 93

Evolution of Fibrils with Special Reference to Flare Activity

Katsuo Tanaka 47, 247

- One Dimensional Aperture Synthesis Observations at 2.8 cm of the Brightness Distribution over the Solar Equator
 Ambretta Donati Falchi, Marcello Felli, and Gianni Tofani 48, 59
- Photometric Study of Chromospheric and Coronal Spikes Observed during the Total Solar Eclipse of 30 June, 1973
 S. Koutchmy and G. Stellmacher 49, 253
- Observation of a Coronal Hole at 85 GHz
 M. R. Kundu and Sou-Yang Liu 49, 267
- The Lifetime and Evolution of Fibrils
 K. A. Marsh 50, 37
- Quelques résultats d'observation des spicules chromosphériques en K et D3
 Z. Mouradian et I. Soru-Escout 50, 69
- On Some Properties of the Photospheric Structure
 V. A. Krat 50, 259
- A Comparison of He II 304 Å and He I 10830 Å Spectroheliograms
 J. W. Harvey and N. R. Sheeley, Jr. 54, 343
- Spectral Investigation of the Chromosphere. VI: Observations of H α Close to the Limb
 U. Grossmann-Doerth and Marina von Uexküll 55, 321
- D₃ Spicules and the Lower Chromosphere
 K. A. Marsh 57, 37
- Ubiquitous Chromospheric Structures Observed in the Quiet Sun at Millimeter and Centimeter Wavelengths
 Kenneth R. Lang 58, 337
- The Sun at 8.5 mm Wavelength - Results of Observations with High Angular Resolution
 O. Hachenberg, P. Steffen, and W. Harth 60, 105
- Chromospheric Rotation. I: Dependence on the Lifetime of Chromospheric Features
 E. Antonucci, L. Azzarelli, P. Casalini, S. Cerri, and F. Denoth 61, 9
- Post-Flare H α Plage Formation
 A. Bruzek 61, 35
- High Resolution Observations of Fibril Changes in a Small Flare
 Donald F. Neidig 61, 121
- Activity in the Quiet Sun. I: Observations of Macrospicules in H α and D₃
 Barry J. LaBonte 61, 283
- Chromospheric Rotation. II. Dependence on the Size of Chromospheric Features
 E. Antonucci, L. Azzarelli, P. Casalini, S. Cerri, and F. Denoth 63, 17
- On the Large Scale Brightness Fluctuations in the Solar Atmosphere
 V. A. Krat, V. I. Makarov, and K. S. Tavastsherna 68, 237
- Faculae, Filigree and Calcium Bright Points
 P. R. Wilson 69, 9
- The Size Dependence of Contrasts and Numbers of Small Magnetic Flux Tubes in an Active Region
 H. C. Spruit and C. Zwaan 70, 207
- High Resolution Spectroscopy of Solar Activity. I: Observing Procedures
 L. E. Cram, R. D. Robinson, H. A. Mauer, G. R. Mann, and G. L. Phillis 71, 237
- Some Results Concerning the Automatic Photometry of Photographic Chromospheric Images
 L. Azzarelli, P. L. Casalini, S. Cerri, R. Falciani, G. Roberti, and L. A. Saldone 71, 247
- Rotational Modulation of Ca K Flux Ratio and Sunspot Number
 R. W. Stimets and C. Londono 76, 167
- Three-Dimensional Structure of Atmospheric Magnetic Fields in Two Active Regions
 Ronald G. Giovanelli and Harrison P. Jones 79, 267
- Origin of the Weakening of EUV Emission Lines Formed in the Chromosphere-Corona Transition Zone
 Takara Nishikawa 85, 65
- High-Resolution Photography of the Solar Chromosphere. XVI: H α Contrast Profiles of Active Region Loops
 R. J. Bray and R. E. Loughhead 85, 131
- Comparison of Coronal Holes Observed in Soft X-Ray and He I 10830 Å Spectroheliograms
 S. W. Kahler, J. M. Davis, and J. W. Harvey 87, 47
- On the Mass Motions and the Atmospheric States of Moustaches
 Reizaburo Kitai 87, 135

Wave Propagation in a Magnetic Cylinder

P. M. Edwin and B. Roberts **88**, 179

On the Relation between Chromospheric and Photospheric Fine Structure in an Active Region

R. Kitai and R. Muller **90**, 303

Structure and Physics of Solar Faculae. IV: Chromospheric Granular Structure

C. Fang, Z. Mouradian, G. Banos, S. Dumont, and J. C. Pecker **91**, 61

High-Resolution Photograph of the Solar Chromosphere. XVIII: Axial Tilt of H α Loops Observed on the Disk

R. E. Loughhead, Chen Chuan-Le, and Wang Jia-Long **92**, 53

Permanent Changes in Filaments near Solar Flares

David M. Rust **93**, 73

Suspended Spicules Associated with the Enhanced Bright Network in an Active Region

V. Gaizauskas **93**, 257

Ca II K Bright Points and the Solar Cycle

K. R. Sivaraman **94**, 235

Can Mirage Phenomena Be Traced on the Sun?

Yngve Öhman **96**, 209

Mass Motions Due to Shock Propagations along Low-Lying Loops in the Solar Atmosphere. On the Formation of Fibrils

Yoshinori Suematsu **98**, 67

On the Fine Structure of Polarized Elements in Solar Flares and Moustaches

A. N. Babin and A. N. Koval **98**, 159

Chromosphere, Velocity Fields (see *Velocity Fields, Chromosphere*)
Colloquium Reports
The Bilderberg Conference on the Structure of the Quiet Photosphere

C. de Jager **3**, 4

The Bilderberg Model of the Photosphere and Low Chromosphere

O. Gingerich and C. de Jager **3**, 5

The International Symposium on the 1970 Solar Eclipse held June 18-21, 1971 in Seattle, Washington, *Preface*

J. Houtgast **21**, 259

Physics of Solar Prominences. Report on an International Colloquium held at the German Solar Observatory, Anacapri, September 29 to October 1, 1971

Anton Bruzek and Max Kuperus **24**, 3

Proceedings of the Workshop: The Solar Constant and the Earth's Atmosphere, held at Big Bear Solar Observatory, North Shore Drive, Big Bear City, California, 92314, 19-21 May 1975

H. Zirin, R. L. Moore, and J. Walter (eds.) **46**, 377

Report on the Solar Physics-Plasma Physics Workshop, held at Stanford University, 17-20 September 1974

P. A. Sturrock, P. J. Baum, J. M. Beckers, C. E. Newman, E. R. Priest, H. Rosenberg, D. F. Smith, and D. G. Wentzel (eds.) **46**, 411

Flare Build-Up Study, Proceedings of the Study Workshop, held at Falmouth, Cape Cod, Mass., U.S.A., 8-11 September 1975, *Table of Contents*
47, 5

Flare Build-Up Study, Proceedings of the Study Workshop, held at Falmouth, Cape Cod, Mass., U.S.A., 8-11 September 1975, *Preface*

Zdeněk Švestka **47**, 9

Proceedings of the Meeting 'How Can Flares Be Understood?' held during the 16th General Assembly of the IAU in Grenoble, France, on 27 August 1976, *Table of Contents*
53, 215

Proceedings of the Meeting 'How Can Flares Be Understood?' held during the 16th General Assembly of the IAU in Grenoble, France, on 27 August 1976, *Preface*

Zdeněk Švestka **53**, 217

Energy Release in Solar Flares

A. Gordon Emslie and David M. Rust **65**, 271

A Brief Report of the Joint Discussion Meeting of IAU Commissions 10, 12, 14, and 44 on the Solar Maximum Year, held on August 15th, 1979 in Montreal, Canada

Zdeněk Švestka, Gerard Van Hoven, Peter Hoyng, and Max Kuperus **67**, 379

Proceedings of the 14th ESLAB Symposium 'Physics of Solar Variations' held in Scheveningen, The Netherlands, 16-19 September 1980, *Table of Contents*

74, 3

Proceedings of the 14th ESLAB Symposium 'Physics of Solar Variations' held in Scheveningen, The Netherlands, 16-19 September 1980: *Introduction*

V. Domingo, Editor 74, 7

Proceedings of the 66th IAU Colloquium on 'Problems of Solar and Stellar Oscillations' held at the Crimean Astrophysical Observatory, U.S.S.R., 1-5 September, 1981, *Table of Contents*

Proceedings of the 66th IAU Colloquium on 'Problems of Solar and Stellar Oscillations' held at the Crimean Astrophysical Observatory, U.S.S.R., 1-5 September, 1981, *Forward*

D. O. Gough, Editor 82, 7

The US-Japan Seminar on 'Recent Advances in the Understanding of Solar Flares' held at Komaba, Tokyo, 5-8 October 1982, *Table of Contents*

86, v

The US-Japan Seminar on 'Recent Advances in the Understanding of Solar Flares' held at Komaba, Tokyo, 5-8 October 1982, *Foreward*

S. R. Kane, Y. Uchida, K. Tanaka, and H. S. Hudson 86, ix

The US-Japan Seminar on 'Recent Advances in the Understanding of Solar Flares' held at Komaba, Tokyo, 5-8 October 1982, *Conference Summary*

J. C. Brown 86, 458

Comets

The Interaction of the Solar Wind with a Comet

L. Biermann, B. Brosowski, and H. U. Schmidt 1, 254

Optical Pumping and the D-Line Ratio of Comet 1962-III

N. S. Kovar and R. P. Kovar 3, 611

Note on the Solar Wind-Induced Drag on Comets

Douglas E. Gonzales 9, 205

Some Characteristics of the Solar Wind Inferred from the Study of Sodium Emission from Cometary Nuclei

M. K. V. Bappu and K. R. Sivaraman 10, 496

Comet Searches during Four Major Eclipses

Henry C. Courten 21, 495

Solar Wind Interaction with Comet Bennett (1969i)

L. F. Burlaga, J. Rahe, B. Donn, and M. Neugebauer 30, 211

Plasma Acceleration by Ion-Acoustic Turbulence

V. Krishan 68, 343

Contribution Functions (*see Atmospheric Models*)

Convection

Absolute Wavelengths of Fraunhofer Lines: Convective Motions in the Solar Photosphere and the Gravitational Red Shift

D. L. Lambert and E. A. Mallia 3, 499

On the Occurrence of Convective Motions in the Upper Photosphere

C. de Jager and L. Neven 4, 379

The Space Spectrum of Convective Instability

B. E. Žiljaev 6, 351

Temperature Fluctuations in the Solar Photosphere

P. R. Wilson 6, 364

The Solar Differential Rotation and 'Rossby-Type' Waves

Shoji Kato and Y. Nakagawa 10, 476

On Large-Scale Solar Convection

Robert P. Davies-Jones and Peter A. Gilman 12, 3

Convective Instability of a Model Chromosphere

Richard J. Defouw 14, 42

Production of the Solar Magnetic Fine-Structure by Convection

S. R. Weart 14, 274

Inhomogeneous Convection and the Equatorial Acceleration of the Sun

B. R. Durney and I. W. Roxburgh 16, 3

- Studies of Granular Velocities. II: Statistical Analysis of Two High-Resolution Spectrograms
J. P. Mehlretter **16**, 253 *Corrigendum 18*, 510
- Complexes of Activity of the Solar Cycle and Very Large Scale Convection
Hirokazu Yoshimura **18**, 417
- On Time Variations of the Solar Differential Rotation Law and Asymmetry of the Global Distribution of the Solar Activity
Hirokazu Yoshimura **22**, 20
- On the Applicability of Goldberg and Unno's Method to the Determination of Microturbulent Velocities in an Atmosphere with Convection
C. de Jager and L. Neven **22**, 49
- On the Directional Dependence of the Emission of Acoustic Noise by Convective Turbulence in a Gravitational Atmosphere
M. Kuperus **22**, 257
- Spectral Analyses of Solar Photospheric Fluctuations. III: Bi-Dimensional Power, Coherence and Phase Spectra of Deep-Seated Radial Velocity and Photometric Fluctuations
Frank N. Edmonds, Jr. and Carol J. Webb **25**, 44
- The Empirical Determination of Line Source Functions, β_L -Values, and the Microturbulent and Convective Velocity Components as Functions of Depth in the Photosphere-Chromosphere Transition Region
C. de Jager and L. Neven **25**, 277
- Observation of Solar Particle Fluxes over Extended Solar Longitudes
R. P. Bukata, U. R. Rao, K. G. McCracken, and E. P. Keath **26**, 229
- Nonlinear Boussinesq Convective Model for Large Scale Solar Circulations
Peter A. Gilman **27**, 3
- The Cooling of a Sunspot. I: A Carnot Cycle and the Hydromagnetic Interactions
P. R. Wilson **27**, 354
- The Cooling of a Sunspot. II: Convection Zone Models and the Magnetic Power Supply
P. R. Wilson **27**, 363 *Erratum 30*, 280
- On the Possibility of Constructing a Radiative Sunspot Model in Magnetohydrostatic Equilibrium
D. J. Mullan **30**, 75
- Can Oscillations Grow in a Sunspot Umbra?
D. J. Mullan and H. S. Yun **30**, 83
- Convective Instability in a Compressible Atmosphere
S. M. Chitre and M. H. Gokhale **30**, 309
- On the Generation of Umbral Flashes and Running Penumbral Waves
R. L. Moore **30**, 403
- On the Characteristics of the Basic Framework of Solar Active Regions and the Magnetohydrodynamical Structure of the Convection Zone
Hirokazu Yoshimura **33**, 131
- Magnetic Convection
Kenneth H. Schatten **33**, 305
- Response of an Optically Thin, Isothermal Atmosphere to a Convective Overshoot
Cheng-Jen Chen **37**, 53
- Reply to Gilman Concerning 'Solar Polar Spin-Down'
Kenneth H. Schatten **37**, 487
- Comments on Schatten's Reply to My Comments on 'Solar Polar Spindown'
Peter A. Gilman **37**, 491
- Is Magnetic Convection Important in the Sun?
D. J. Mullan **38**, 9
- Convective Flux in the Solar Photosphere as Determined from Fluctuations
Frank N. Edmonds, Jr. **38**, 33
- On Convection in the Sun
Yu. V. Vandakurov **40**, 3
- The Nature of the Sunspot Phenomenon. III: Energy Consumption and Energy Transport
E. N. Parker **40**, 275
- Long Term Variation of the Solar Equatorial Velocity and Its Relation to Non-Axisymmetric Convection
G. Belvedere and L. Paternò **41**, 289

- Fine Structure and Evershed Motions in the Sunspot Penumbra
D. J. Galloway **44**, 409
- Equilibrium Problems in a Rotating Convection Zone
Yu. V. Vandakurov **45**, 501
- Large Scale Circulation in the Convection Zone and Solar Differential Rotation
G. Belvedere and L. Paternò **47**, 525
- Umbral Boundaries, Convection, and the Depth of Sunspots
Philip A. Isenberg **50**, 49
- Two-Dimensional Stochastic Motions and the Problem of Differential Rotation
Günther Rüdiger **51**, 257
- Outward Transport of Angular Momentum by Gas Convection and the Equatorial Acceleration of the Sun
E. M. Drobyshevski **51**, 473
- On the Sun's Pole-Equator Flux Differences
Gaetano Belvedere and Lucio Paternò **52**, 191
- Morphological Properties and Origin of the Photospheric Facular Granules
R. Muller **52**, 249
- On a Possible Mechanism of Solar Faculae Heating
S. I. Vainstein, G. V. Kuklin, and V. P. Maksimov **53**, 15
- On the Asymmetry of Selected Fraunhofer Lines
R. I. Kostik and T. V. Orlova **53**, 353
- Convection in a Rotating Deep Compressible Spherical Shell: Application to the Sun
Gaetano Belvedere and Lucio Paternò **54**, 289
- Heat Flow near Obstacles in the Solar Convection Zone
H. C. Spruit **55**, 3
- Comments on 'Outward Transport on Angular Momentum...' by E. M. Drobyshevski
Günther Rüdiger **59**, 237
- Vertical Motions in an Intense Magnetic Flux Tube. II: Convective Instability
A. R. Webb and B. Roberts **59**, 249
- The Origin of Supergranulation and Giant Cells in the Solar Convective Zone
I. W. Roxburgh and R. K. Tavakol **61**, 247
- Convective Instability of Thin Flux Tubes
H. C. Spruit and E. G. Zweibel **62**, 15
- Thermal Models of Sunspots
Alfred Clark, Jr. **62**, 305
- On Efficiency of Convection of Öpik's Cellular Convection Theory
Hong Sik Yun **63**, 31
- Stability of a Steady Vertical Flow in a Viscous Fluid
H. M. Antia and S. M. Chitre **66**, 71
- Granulation and Supergranulation as Convective Modes in the Solar Envelope
H. M. Antia, S. M. Chitre, and S. K. Pandey **70**, 67
- Compression of Magnetic Field in a Viscous Boundary Layer
E. N. Parker **77**, 3
- Overstability of Acoustic Modes and the Solar Five-Minute Oscillations
H. M. Antia, S. M. Chitre, and D. Narasimha **77**, 303
- Derivation of the Amplitude Equations of Acoustic Modes of an Unstable Semi-Infinite Polytrope (*Invited Review*)
Jean-Pierre Poyet **82**, 267
- Nonlinear Anelastic Modal Theory for Solar Convection (*Invited Review*)
Jean Latour, Juri Toomre, and Jean-Paul Zahn **82**, 387
- On the Detection of Subphotospheric Convective Velocities and Temperature Fluctuations
D. O. Gough and J. Toomre **82**, 401
- Maunder Convection Mode on the Sun and Long Solar Activity Minima
V. A. Dogiel **82**, 427
- Stellar 5 min Oscillations
Jørgen Christensen-Dalsgaard and Søren Frandsen **82**, 469

Solar Irradiance Changes Caused by g -Modes and Large-Scale Convection

Charles L. Wolff **93**, 1

The Solar O I $\lambda 7773$ Triplet. II: Analysis Using Line Inversion Techniques

A. Kavetsky and B. J. O'Mara **96**, 1

Photospheric Limb-Darkening Signatures of Global Structure Variations

L. D. Petro, P. V. Foukal, and Robert L. Kurucz **98**, 23

A Self-Consistent Linear-Mode Model of Stellar Convection

Joel MacAuslan **99**, 55

The Solar Dynamo (*Invited Review Paper*)

A. A. Ruzmaikin **100**, 125

Solar Convection (*Invited Review Paper*)

Åke Nordlund **100**, 209

Convection Zone

The Space Spectrum of Convective Instability

B. E. Žiljaev **6**, 351

On Large-Scale Solar Convection

Robert P. Davies-Jones and Peter A. Gilman **12**, 3

Differential Rotation Caused by Anisotropic Turbulent Viscosity

H. Köhler **13**, 3

Inhomogeneous Convection and the Equatorial Acceleration of the Sun

B. R. Durney and I. W. Roxburgh **16**, 3

On the Adjustment of Outer Solar Layer Models

I. A. Krinberg and R. B. Teplitskaya **25**, 305

On the Sun's Differential Rotation and Pole-Equator Temperature Difference

B. Durney **26**, 3

Nonlinear Boussinesq Convective Model for Large Scale Solar Circulations

Peter A. Gilman **27**, 3

The Cooling of a Sunspot. II: Convection Zone Models and the Magnetic Power Supply

P. R. Wilson **27**, 363 *Erratum 30*, 280

Solar Abundances of Light Nuclei and Mixing of the Sun

Peter Bochsler and Johannes Geiss **32**, 3

Solar Polar Spin-Down

Kenneth H. Schatten **32**, 315

On the Characteristics of the Basic Framework of Solar Active Regions and the Magnetohydrodynamical

Structure of the Convection Zone

Hirokazu Yoshimura **33**, 131

A Model of the Solar Convection Zone

H. C. Spruit **34**, 277

Comments on 'Solar Polar Spindown', by Kenneth Schatten

Peter A. Gilman **36**, 61

Reply to Gilman Concerning 'Solar Polar Spin-Down'

Kenneth H. Schatten **37**, 487

Comments on Schatten's Reply to My Comments on 'Solar Polar Spindown'

Peter A. Gilman **37**, 491

On the Sun's Differential Rotation. Implications of the Difference in Angular Velocity between the Sunspots and Photosphere

B. R. Durney **38**, 301

On Convection in the Sun

Yu. V. Vandakurov **40**, 3

The Five-Minute Oscillations in the Solar Atmosphere

S. M. Chitre and M. H. Gokhale **43**, 49

Equilibrium Problems in a Rotating Convection Zone

Yu. V. Vandakurov **45**, 501

Large Scale Circulation in the Convection Zone and Solar Differential Rotation

G. Belvedere and L. Paternò **47**, 525

On the Sun's Pole-Equator Flux Differences

Gaetano Belvedere and Lucio Paternò 52, 191

Convection in a Rotating Deep Compressible Spherical Shell: Application to the Sun

Gaetano Belvedere and Lucio Paternò 54, 289

Heat Flow near Obstacles in the Solar Convection Zone

H. C. Spruit 55, 3

Momentum and Energy Transport in the Sun's Convection Zone under the Observational Constraint of Flux and

Temperature Homogeneity at the Surface

Gaetano Belvedere and Lucio Paternò 60, 203

The Origin of Supergranulation and Giant Cells in the Solar Convective Zone

I. W. Roxburgh and R. K. Tavakol 61, 247

Convective Collapse of Flux Tubes

H. C. Spruit 61, 363

Convective Instability of Thin Flux Tubes

H. C. Spruit and E. G. Zweibel 62, 15

Instability by Magnetic Buoyancy

D. J. Acheson 62, 23

On Efficiency of Convection of Öpik's Cellular Convection Theory

Hong Sik Yun 63, 31

Granulation and Supergranulation as Convective Modes in the Solar Envelope

H. M. Antia, S. M. Chitre, and S. K. Pandey 70, 67

The Influence of the Angular Velocity Distribution on the Energy Transport in the Sun's Convection Zone

G. Belvedere, G. La Rosa, and L. Paternò 74, 107

Propagation Speeds and Acoustic Damping of Waves in Magnetic Flux Tubes

H. C. Spruit 75, 3

Quick Matching Technique to Study the Relationship between Solar Radius and Luminosity Variations

Sabatino Sofia and Kwing L. Chan 76, 145

Overstability of Acoustic Modes and the Solar Five-Minute Oscillations

H. M. Antia, S. M. Chitre, and D. Narasimha 77, 303

Solar Models with Low Opacity

P. A. Kuzurman and A. A. Pamyatnykh 82, 223

Is There an Oblique Magnetic Rotator Inside the Sun? (*Invited Review, Abstract*)

G. R. Isaak 82, 235

On the Influence of Nonlinearities on the Eigenfrequencies of Five-Minute Oscillations of the Sun

Gaetano Belvedere, Douglas Gough, and Lucio Paternò 82, 343

Nonlinear Anelastic Modal Theory for Solar Convection (*Invited Review*)

Jean Latour, Juri Toomre, and Jean-Paul Zahn 82, 387

On the Detection of Subphotospheric Convective Velocities and Temperature Fluctuations

D. O. Gough and J. Toomre 82, 401

Variability in the Power Spectrum of Solar Five-Minute Oscillations (*Invited Review*)

Frank Hill, Juri Toomre, and Laurence J. November 82, 411

Maunder Convection Mode on the Sun and Long Solar Activity Minima

V. A. Dogiel 82, 427

Solar Irradiance Changes Caused by *g*-Modes and Large-Scale Convection

Charles L. Wolff 93, 1

A Self-Consistent Linear-Mode Model of Stellar Convection

Joel MacAuslan 99, 55

Present Problems of the Solar Interior (*Invited Review Paper*)

Ian W. Roxburgh 100, 21

Corona

Brightness Variations of the White Light Corona during the Years 1964-67

Richard T. Hansen, Charles J. Garcia, Shirley F. Hansen, and Harold G. Loomis 7, 417

Coronal Polarization and Intensity at the November 12, 1966 Solar Eclipse

Warren N. Arnquist, Donald H. Menzel, and Fernando de Romaña 11, 82 Erratum 12, 510

Some Observed Characteristics of Solar Radar Echoes and Their Implications

Jesse C. James 12, 143

- On the Ratio between the Mechanical Fluxes in- and outside the Solar Chromospheric Mottles
C. de Jager and C. De Loore **13**, 126
- Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona
Gordon Newkirk, Jr., Robert G. Dupree, and Edward J. Schmahl **15**, 15 *Erratum* 16, 250
- Coronal Magnetic Field Patterns Inferred from Radio Observations
M. F. Lantos-Jarry **15**, 40
- Un programme de photographie en lumière monochromatique des émissions coronales pour la période 1973-1976
Jean-Louis Leroy et Jean Rösche **15**, 383
- Spectropolarimetric Analysis of the Solar Corona during the 12 November, 1966 Total Eclipse
B. Caccin, G. Moschi, M. Rigutti, and R. Falciani **17**, 89
- Observations and Discussions Concerning 'High' Polarization Features in the Solar Corona
Serge Koutchmy and Kenneth H. Schatten **17**, 117
- Scattering of Radiowaves from Cosmic Sources in the Solar Corona
L. L. Baselyan and V. G. Sinitin **17**, 129
- K-Coronal Enhancements and Chromospheric Plages
Richard T. Hansen, Shirley F. Hansen, Charles J. Garcia, and Dorothy E. Trotter **18**, 271
- Photometry of the Outer Solar Corona from Lunar-Based Observations
J. David Bohlin **18**, 450
- A Method for the Evaluation of the Brightness Distribution in the Solar Corona
W. Stanek **21**, 121
- Rocket-Coronagraph Photometry of the 7 March, 1970 Corona from 3 to 8.5 R_{\odot}
J. D. Bohlin, M. J. Koomen, and R. Tousey **21**, 408
- Results of Polarization Observations of the Outer Corona from a Jet Aircraft
C. F. Keller **21**, 425
- The Results of Coronal Investigation at the September 22, 1968 Solar Eclipse
Ts. S. Khetsuriani and E. I. Tetrushvili **25**, 343
- Solar Cycle Variation and N-S Asymmetry of $\lambda 5303$ Coronal Intensity
P. N. Pathak **25**, 489
- Solar Rotation as Measured in EUV Chromospheric and Coronal Lines
George W. Simon and Robert W. Noyes **26**, 8
- Coronal Survey in X-Rays of O VII and Ne IX
L. W. Acton, R. C. Catura, A. J. Meyerott, C. J. Wolfson, and J. L. Culhane **26**, 183
- Solar Rotation as Determined from OSO-4 EUV Spectroheliograms
A. K. Dupree and W. Henze, Jr. **27**, 271
- A Model of the Quiet Solar Atmosphere
J. H. Piddington **27**, 402
- On an Anomalous Polarization of the Corona
M. M. Molodensky **28**, 465
- Observations of the Inner F and K Coronas below $\lambda 2220$
Frank Q. Orrall and R. J. Speer **29**, 41
- A Study of Solar Radio Emission in the Light of Sengupta's Model of Coronal Active Regions
P. R. Sengupta and A. K. Chakraborty **30**, 395
- Quiet Corona Density Model for the Last Maximum of Solar Activity
Y. Leblanc, J. L. Leroy, and P. Pecantet **31**, 343
- Coronal Disturbances. I: Fast Transient Events Observed in the Green Coronal Emission Line during the Last Solar Cycle
H. L. DeMastus, W. J. Wagner, and R. D. Robinson **31**, 449
- Solar Rotation in the Chromosphere and Corona
William Henze, Jr. and A. K. Dupree **33**, 425
- Rigid and Differential Rotation of the Solar Corona
Ester Antonucci and Leif Svalgaard **34**, 3
- A Comparison of EUV Spectroheliograms and Photospheric Magnetograms
Joseph B. Gurman, George L. Withbroe, and John W. Harvey **34**, 105
- The Coronal Transient of 16 June 1972
Martin Koomen, Russell Howard, Richard Hansen, and Shirley Hansen **34**, 447
- The Quiet Corona: Temperature and Temperature Gradient
S. J. Bame, J. R. Asbridge, W. C. Feldman, and P. D. Kearney **35**, 137

- The Solar Wind Velocity in the Eleven-Year Cycle No. 20 and the Solar Radar Cross-Section
Stephen Pintér 35, 225
- Photométrie photographique de la couronne solaire. Observée au cours de l'éclipse totale du 10 juillet 1972
S. Koutchmy, N. I. Dzubenko, A. T. Nesmjanovich, and S. K. Vsekhsvjatsky 35, 369
- A Gaussian Spread Function for the Solar Aureole
L. Staveland 36, 235
- Coronal Density Structures in Regions of Type III Activity
Y. Leblanc, T. B. H. Kuiper, and S. F. Hansen 37, 215
- Electrons in the Solar Corona. I: Electron Density Models of Streamers at Eclipse 15 February 1961
Audouin Dollfus, Marius Laffineur, and Zadig Mouradian 37, 367
- Observation of Sectorized Structure in the Outer Solar Corona: Correlation with Interplanetary Magnetic Field
R. A. Howard and M. J. Koomen 37, 469
- Coronal Information from EUV Disk Spectral Line Intensities
D. E. Billings and Manuel Alvarez 40, 23
- A Coronal Hole Observed at 10.7 GHz with a Large Single Dish
E. Fürst and W. Hirth 42, 157
- Precise Determination of the Orientation of the Plane of Polarization in the Solar Corona
A. K. Kishonkov and M. M. Molodensky 42, 341
- Small-Scale Inhomogeneities in the Solar Corona: Evidence from Meter- λ Radio Bursts
D. B. Melrose 43, 79
- The Quiet Sun Brightness Temperature at 408 MHz
Y. Avignon, P. Lantos, F. Palagi, and P. Patriarchi 45, 141
- The Analysis of XUV Emission Lines
George L. Withbroe 45, 301
- Interferometer Observations of the Solar Brightness Distribution at 8.6 mm Wavelength
Ikuro Suzuki, Kin-Aki Kawabata, and Hideo Ogawa 46, 205
- Observations of Coronal Polarization at the Solar Eclipse of 7 March, 1970
J. Dürst 50, 457
- An Explanation of the Observed Differences between Coronal Holes and Quiet Coronal Regions
A. G. Hearn 51, 159
- Essential Features of the 11-Year Solar Cycle
M. N. Gnevyshev 51, 175
- Radio and EUV Observations of a Coronal Hole
G. A. Dulk, K. V. Sheridan, S. F. Smerd, and G. L. Withbroe 52, 349
- The Polarization of the Inner Solar Corona at the Eclipse of 10 July 1972
G. M. Nikolsky, A. A. Sazanov, and A. K. Kishonkov 53, 79
- The Effects of Scattering on Quiet Sun Emission at Frequencies Less than 200 MHz
J. N. McMullin and H. L. Helfer 53, 471
- Coronal X-Ray Holes and the Quiet Radio Sun at 2800 MHz
Arthur E. Covington 54, 393
- A Study of the Background Corona near Solar Minimum
Kuniji Saito, Arthur I. Poland, and Richard H. Munro 55, 121
- The Colour of the Solar Corona and Dust Grains in It
A. K. Ajmanov and G. M. Nikolsky 65, 171
- Solar Brightness Distribution at 8.6 mm from Interferometer Observations
K. Kawabata, M. Fujishita, T. Kato, H. Ogawa, and T. Omodaka 65, 221
- Synoptic Charts of Solar 9.1 cm and Coronal Hole Data
Fred L. Wefer and Michael D. Papagiannis 67, 13
- Propagation Speeds and Acoustic Damping of Waves in Magnetic Flux Tubes
H. C. Spruit 75, 3
- Enthalpy Flux Cooling of the Solar Corona
Steven G. Wallenhorst 77, 167
- Light Deflection during Solar Eclipses
J. Bouet 78, 385
- Enthalpy Flux Cooling of the Solar Corona. II: Applications to Closed Coronal Structures
Steven G. Wallenhorst 79, 333

First Results from the Clark Lake Multifrequency Radioheliograph

M. R. Kundu, W. C. Erickson, T. E. Gergely, M. J. Mahoney, and P. J. Turner **83**, 385Trente Cinq de Années Mesures Systématiques de l'Intensité de la Couronne d'Emission en dehors des Éclipses
(Thirty-Five Years of Patrol Measurements of the Intensity of the Solar Corona outside Eclipses)J. P. Rozelot and M. Fulconis **84**, 77 *Addendum* 88, 392

Evidence for Arc Sec Radio Burst Sources in the Upper Corona

David McConnell **84**, 361

Broad-Band, High-Resolution Photograph of the Solar Corona February 16, 1980

K. K. Scaria **85**, 235

Stability of the Photometric Observations of the Solar Corona and Variations of Its Intensity in the Solar Cycle 21

M. N. Gnevyshev and V. P. Mikhailutsa **90**, 177

Solar Noise Storms and Magnetic Sector Structures

R. T. Stewart **96**, 381

Coronal Structures Observed at Metric Wavelengths with the Nançay Radioheliograph

C. E. Alissandrakis, P. Lantos, and E. Nicolaidis **97**, 267The Heating of Coronae (*Invited Review Paper*)James A. Ison **100**, 289Imaging of Coronal Mass Ejections by the Helios Spacecraft (*Invited Review Paper*)B. V. Jackson **100**, 563**Corona, Active**

The Solar Corona above Active Regions: A Comparison of Extreme Ultraviolet Lines with Radio Emission

Werner M. Neupert **2**, 294

Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data

J. David Bohlin and M. Simon **9**, 183

Solar Coronal Streamers. I: Observed Locations, General Evolution, and Classification

J. David Bohlin **12**, 240

Flare-Associated Coronal Expansion Phenomena

Anton Bruzek and Howard L. DeMastus **12**, 447

Solar Coronal Streamers. II: Evolution of Discrete Features from the Sun to 1 AU

J. David Bohlin **13**, 153

Green Line Observations of the March 1970 Coronal Enhancements

Richard R. Fisher **16**, 111

X-Ray Observations of Solar Active Regions from OSO-5

J. H. Parkinson and K. A. Pounds **17**, 146

A Method of Calculating 0-20 Å Solar X-Ray Flux and Its Spectral Distribution Using 9.1 cm Spectroheliograms

P. R. Sengupta **17**, 160

Soft X-Ray Emitting Regions in the Solar Corona

M. Landini and B. C. Monsignori Fossi **17**, 379

The Longitudinal Distribution of the Green Coronal Activity

J. Škora **18**, 72

The Outflow of Solar Wind from the Active Regions

G. S. Bisnovaty-Kogan and I. M. Gordon **18**, 133

On the Use of a Solid Fabry-Perot Interferometer for Coronal Photography

Richard Fisher **18**, 253

K-Coronal Enhancements and Chromospheric Plages

Richard T. Hansen, Shirley F. Hansen, Charles J. Garcia, and Dorothy E. Trotter **18**, 271

On the Abundance of Calcium in the Solar Corona

Richard R. Fisher **19**, 431

Monochromatic Observations of a Coronal Loop

Richard R. Fisher **19**, 436

EUV and Soft X-Ray Images of the Sun on March 11th, 1971

H. Bräuninger, H. J. Einighammer, J. V. Feitzinger, H. H. Fink, D. H. Höhn, H. Koops, G. Krämer, U. Mayer, G. Möllenstedt, and M. Mozer **20**, 81

Coronagraphic Observations of an Enhanced Coronal Region. I: Fe XII and Ni XV Emission Line Data

R. Fisher and T. Pope **20**, 389

- Analyse des renforcements coronaux à travers quelques acquisitions spectroscopiques récentes des émissions monochromatiques du fer ionisé (X à XV)
J. P. Rozelot **22**, 88
- Results from OSO-IV: The Long Term Behavior of X-Ray Emitting Regions
A. Krieger, F. Paolini, G. S. Vaiana, and D. Webb **22**, 150
- The Interpretation of Total Line Intensities from Optically Thin Gases. III: Application to Coronal Forbidden Line Spectra
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker **22**, 327
- Observed Heights of EUV Lines Formed in the Transition Zone and Corona
George W. Simon and Robert W. Noyes **22**, 450
- Coronagraphic Observations of an Enhanced Coronal Region. II: Temperature and Density Structure through the Enhanced Region
Richard R. Fisher **24**, 385
- Photographs of the Sun in the XUV-Region
M. Burger and J. H. Dijkstra **24**, 395
- An Investigation of the Structure of Coronal Active Regions
J. H. Parkinson **28**, 487
- X-Rays Spectroheliograms in Lines of Mg XI and Mg XII
C. Bonnelle, C. Senemaud, G. Senemaud, G. Chambre, M. Guionnet, J. C. Henoux, and R. Michard **29**, 341
- Correlation and Spectral Analysis of Daily Solar Radio Flux
Mohamed El-Raey and Phillip Scherrer **30**, 149
- Identification and Analysis of Structures in the Corona from X-Ray Photography
G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81
- Coronal Disturbances. II: The Fast Rearrangement of Coronal Magnetic Fields
W. J. Wagner, Richard T. Hansen, and Shirley F. Hansen **34**, 453
- Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations
K. Kai and K. V. Sheridan **35**, 181
- Excess Heating of Corona and Chromosphere Above Magnetic Regions by Non-Linear Alfvén Waves
Yutaka Uchida and Osamu Kaburaki **35**, 451
- On 5694 Å Coronal Line Observations
E. I. Tetruashvili **39**, 387
- Coronal Information from EUV Disk Spectral Line Intensities
D. E. Billings and Manuel Alvarez **40**, 23
- XUV Observations of Coronal Magnetic Fields
N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. Scherrer, and R. Tousey **40**, 103
- On the Correlation of Coronal Green-Line Intensity and Solar Wind Velocity
E. C. Roelof, S. Cuperman, and A. Sternlieb **41**, 349
- The X-Ray Line and Continuum Emission from a Solar Active Region
P. B. Landecker and R. S. Wolff **42**, 209
- EUV Analysis of an Active Region
Nirupama Raghavan and George L. Withbroe **43**, 117
- The Temperature Structure and Pressure Balance of Magnetic Loops in Active Regions
P. Foukal **43**, 327
- Energy Balance in a Magnetically Confined Coronal Structure Observed by OSO-7
W. M. Neupert, Y. Nakagawa, and David M. Rust **43**, 359
- The Coronal Condensation Observed at the 1973 Eclipse
Hiroki Kurokawa **43**, 385
- The Spectrum of Ni XIX in the Solar Corona
R. J. Hutcheon, J. P. Pye, and K. D. Evans **46**, 171
- Evidence for Magnetic Energy Storage in Coronal Active Regions
A. S. Krieger, L. D. de Feiter, and G. S. Vaiana **47**, 117
- Physics of an Active Region Loop System
Randolph H. Levine and George L. Withbroe **51**, 83
- Periodic Oscillations Found in Coronal Velocity Fields
Tokio Tsubaki **51**, 121

- The Shock Waves and the Magnetic Field in the Corona above the Active Region on February 17-28, 1969
Irena Garczyńska **51**, 131
- Transequatorial Loops Interconnecting McMath Regions 12472 and 12474
Z. Švestka, A. S. Krieger, R. C. Chase, and R. Howard **52**, 69
- A Long-Lived Coronal Arch System Observed in X-Rays
J. P. McGuire, E. Tandberg-Hanssen, K. R. Krall, S. T. Wu, J. B. Smith, and D. M. Speich **52**, 91
- The Enhancement of Scattered $L\alpha$ Radiation in the Geocorona during the Solar Flares of August 1972
D. H. Morgan **52**, 463
- Development of a Complex of Activity in the Solar Corona
Robert Howard and Zdeněk Švestka **54**, 65 *Erratum 56*, 471
- The Structure of Coronal Magnetic Loops. I: Equilibrium Theory
Claudio Chiuderi, Riccardo Giachetti, and Gerard Van Hoven **54**, 107
- Soft X-Ray Observations of Large-Scale Coronal Active Region Brightenings
David M. Rust and David F. Webb **54**, 403
- The Decay of Coronal Loops Brightened by Flares and Transients
Allen S. Krieger **56**, 107
- Observational Evidence of Continual Heating in X-Ray Emitting Coronal Loops
M. Gerassimenko, C. V. Solodyna, and J. T. Nolte **57**, 103
- Physical Conditions in the Corona for a Bipolar Magnetic Region
Joan A. Vorpahl **57**, 297
- Analysis and Interpretation of Soft X-Ray Photographs of Coronal Active Regions Taken with Fresnel Zone Plates. I: Image Analysis
G. Krämer, H. J. Einighammer, G. Elwert, H. Bräuninger, H. H. Fink, and J. Trümper **57**, 345
- The Structure of Coronal Loops
E. R. Priest **58**, 57
- Configuration and Gradual Dynamics of Prominence-Related X-Ray Coronal Cavities
S. Serio, G. S. Vaiana, G. Godoli, S. Motta, V. Pirronello, and R. A. Zappalà **59**, 65
- Silicon X-Ray Line Emission from Solar Flares and Active Regions
John H. Parkinson, R. S. Wolff, H. L. Kestenbaum, W. H.-M. Ku, J. R. Lemen, K. S. Long, R. Novick, R. J. Suozzo, and M. C. Weisskopf **60**, 123
- Physical Parameters in Long-Decay Coronal Enhancements
W. J. MacCombie and D. M. Rust **61**, 69
- Preflare Characteristics of Active Regions Observed in Soft X-Rays
S. W. Kahler **62**, 347
- Rapid Changes in the Fine Structure of a Coronal 'Bright Point' and a Small Coronal 'Active Region'
N. R. Sheeley, Jr. and L. Golub **63**, 119
- A Comparison of the Temperature and Emission Measure of X-Ray Active Regions with Coronal Magnetic Fields
J. B. Burl, R. G. Teske, and E. B. Mayfield **63**, 157
- Transient Brightenings of Interconnecting Loops. Morphology of the Sudden Brightenings
Z. Švestka and Robert Howard **63**, 297
- The Height Structure of Solar Active Regions at X-Ray Wavelengths as Deduced from OSO-8 Limb Crossing Observations
J. M. Mosher **64**, 109
- Observations of Coronal Oscillations above an Active Region
Thomas F. Egan and Timothy J. Schneeberger **64**, 223
- Heating of Coronal Loops by Fast Mode MHD Waves
Shadia Rifai Habbal, Egil Leer, and Thomas E. Holzer **64**, 287
- Siphon Flows in Coronal Loops. I: Adiabatic Flow
P. J. Cargill and E. R. Priest **65**, 251
- The Coronal and Transition Region Temperature Structure of a Solar Active Region
Randolph H. Levine and J. P. Pye **66**, 39
- Temporal Variations of Loop Structures in the Solar Atmosphere
N. R. Sheeley, Jr. **66**, 79
- On the Physics of a Long Decay X-Ray Event
K. R. Krall, J. B. Smith, Jr., and J. P. McGuire **66**, 371

- A Low β Coronal Loop Model. I: Kink Instabilities in the $\beta=0$ Limit
R. M. J. Sillen and A. Kattenberg 67, 47 *Errata* 79, 401
- The Flare of September 7, 1973: A Typical Example of a Newly Recognized Class of Solar Transients
R. Pallavicini and G. S. Vaiana 67, 127
- Morphology and Spatial Distribution of XUV and X-Ray Emissions in an Active Region Observed from Skylab
Chung-Chieh Cheng, J. B. Smith, Jr., and E. Tandberg-Hanssen 67, 259
- The Thermal Statics of Coronal Loops
B. Roberts and S. Frankenthal 68, 103
- The Orientation of Pre-Transient Coronal Magnetic Fields
Gerard Trottet and R. M. MacQueen 68, 177
- Preflare Conditions, Changes and Events (*Invited Review Paper*)
Sara F. Martin 68, 217
- Siphon Flows in the Solar Corona
G. Noci 69, 63
- Coronal Loops and Active Region Structure
D. F. Webb and H. Zirin 69, 99
- Alfvén Waves in the Solar Atmosphere. II: Open and Closed Magnetic Flux Tubes
Joseph V. Hollweg 70, 25
- The Dynamic Formation of Quasi-Static Active Region Loops
I. J. D. Craig and A. N. McClymont 70, 97
- Effect of Thermal Conduction and Radiation on the Dynamics of a Flaring Coronal Loop
S. T. Wu, L. C. Kan, Y. Nakagawa, and E. Tandberg-Hanssen 70, 137
- The Temperature-Density Structure of Coronal Loops in Hydrostatic Equilibrium
M. A. Wragg and E. R. Priest 70, 293
- On the Outburst of Flare Activity of 26 November, 1973
Robert Howard and Zdeněk Švestka 71, 49
- Transient Brightenings of Interconnecting Loops. II: Dynamics of the Brightened Loops
Zdeněk Švestka and Robert Howard 71, 349
- Measuring Electron Density in Coronal Active Regions. I: A K -Coronameter with a Reflex Monitor at $\lambda 5303 \text{ \AA}$
J.-C. Neons and J.-L. Leroy 73, 81
- Current Confinement in Solar Coronal Loops
Claudio Chiuderi and Giorgio Einaudi 73, 89
- The XUV Structure of Solar Active Regions
Kenneth P. Dere 75, 189
- Observations of a Post-Flare Radio Burst in X-Rays
Z. Švestka, R. T. Stewart, P. Hoyng, W. van Tend, L. W. Acton, A. H. Gabriel, C. G. Rapley, A. Boelee, E. C. Bruner, C. de Jager, H. LaFleur, G. Nelson, G. M. Simnett, H. F. van Beek, and W. J. Wagner 75, 305
- Model for Flare Loops, Fast Motions, and Opening of Magnetic Field in the Corona
S. I. Syrovatskii 76, 3
- Tunneling and Interference of Alfvén Waves
Y. D. Žugžda and V. Locāns 76, 77
- The Stability and Uniqueness of Coronal Loops
I. J. D. Craig, T. D. Robb, and M. D. Rollo 76, 331
- Non-Equilibrium Ionization in Coronal Loops
G. Borrini and G. Noci 77, 153
- Analysis of the High Resolution Mg XI X-Ray Spectra. II: Physical Parameters of the Plasma in Active Region
McMath 14352
M. Siarkowski, J. Sylwester, G. Bromboszcz, V. V. Korneev, S. L. Mandelstam, S. N. Oparin, A. M. Urnov, I. A. Zhitnik, and S. Vasha 77, 183
- Enthalpy Flux Cooling of the Solar Corona. II: Applications to Closed Coronal Structures
Steven G. Wallénhorst 79, 333
- A Low- β Coronal Loop Model. II: Kink Instabilities in Loops Surrounded by Plasma
Arie Kattenberg and Rob Sillen 79, 343
- Hydromagnetic Stability of Coronal Arcade Structures: The Effects of Photospheric Line Tying
Alak Ray and Gerard Van Hoven 79, 353

Unusual Coronal Activity Following the Flare of 6 November 1980

Z. Švestka, B. R. Dennis, M. Pick, A. Raoult, C. G. Rapley, R. T. Stewart, and B. E. Woodgate **80**, 143

Plasma Flow around Coronal Loops

Satoshi Hinata **80**, 173

Properties of Coronal Arches

John M. Davis and Allen S. Krieger **80**, 295

Thermally Isolated Coronal Loops in Hydrostatic Equilibrium

M. A. Wragg and E. R. Priest **80**, 309

EUV Arcades: Signatures of Filament Instability

E. J. Schmahl, Z. Mouradian, M.-J. Martres, and I. Soru-Escaut **81**, 91

Electric Fields in Coronal Magnetic Loops

P. Foukal, P. Miller, and L. Gilliam **83**, 83

A Relaxation Law for Evaporating and Draining Coronal Plasmas

I. J. D. Craig **84**, 105

Evolution of Electron and Proton Temperatures in a Flaring Loop. I: A Case of Thermal Heating of Electrons

F. Nagai, S. T. Wu, and E. Tandberg-Hanssen **84**, 271

Type I Noise Storms and the Structure of the Extreme Ultraviolet Corona

G. E. Brueckner **85**, 243

X-Ray and Microwave Observations of Active Regions

D. F. Webb, J. M. Davis, M. R. Kundu, and T. Velusamy **85**, 267

Purely Coronal Flare-Like Variations

Z. Švestka, J. Schrijver, B. Somov, B. R. Dennis, B. E. Woodgate, E. Fürst, W. Hirth, L. Klein, and A. Raoult **85**, 313

Pre- and Post-Flare X-Ray Variations in Active Regions

Zdeněk Švestka and Aert Schadee **86**, 267

Line Profile Analysis of an Active Region Corona Observed Successively at the East and West Limb

Tokio Tsubaki **87**, 57

Heating of Chromospheric Magnetic Features by Direct Current Dissipation

Satoshi Hinata **87**, 95

Transient Brightenings of Interconnecting Loops. III: Interpretation

Daniel S. Spicer and Zdeněk Švestka **87**, 271

Spatial Profiles of Lines in Active Region Loops

V. Krishan **88**, 155

The Stability of Coronal Loops: Finite-Length and Pressure-Profile Limits

G. Einaudi and G. Van Hoven **88**, 163

Wave Propagation in a Magnetic Cylinder

P. M. Edwin and B. Roberts **88**, 179

Flow in Coronal Loops with a Mass Source

Giancarlo Noci and Francesca Zuccarello **88**, 193

Enhanced X-Ray Emission above 3.5 keV in Active Regions in the Absence of Flares

Aert Schadee, Cornelis de Jager, and Zdeněk Švestka **89**, 287

The Coronal Disturbance (W90°, N25°) in the Eclipse Spectra of July 31, 1981

K. I. Nikolskaya and V. G. Utrobin **91**, 141

Magnetic Fields and Thermal Structure of Solar Plasmas

G. Einaudi, G. Torricelli-Ciamponi, and C. Chiuderi **92**, 99

Observations of Preburst Heating and Magnetic Field Changes in a Coronal Loop at 20 cm Wavelength

Robert F. Wilson **92**, 189

Oscillations in EUV Emission Lines during a Loop Brightening

E. Antonucci, A. H. Gabriel, and B. E. Patchett **93**, 85Measuring Electron Density in Coronal Active Regions. II: A Multichannel Coronagraph with a Photoelectric Spectrograph and a Reflex Monitor at λ 5303 ÅJ. C. Noëns, J. Pageault, and G. Ratier **94**, 117 *Errata* 95, 199

Revivals of a Coronal Arch

Zdeněk Švestka **94**, 171

Impulsive Phenomena in a Small Active Region

George L. Withbroe, Shadia R. Habbal, and Robert Ronan **95**, 297

- Stereoscopic Determination of the Three-Dimensional Geometry of Coronal Magnetic Loops
Roland Berton and Takashi Sakurai 96, 93
- Observations of Steady Anomalous Magnetic Heating in Thin Current Sheets
P. C. H. Martens, G. H. J. Van Den Oord, and P. Hoyng 96, 253
- Two-Dimensional Pressure Structure of a Coronal Loop
V. Krishan 97, 183
- Resistive Instabilities in Coronal Conditions
Paolo Batistoni, Giorgio Einaudi, and Claudio Chiuderi 97, 309
- Coronal X-Ray Activity Preceding Solar Flares
David F. Webb 97, 321
- Analysis of Loop Flows Observed on 27 March, 1980 by the UVSP Instrument during the Solar Maximum Mission
R. A. Kopp, G. Poletto, G. Noci, and M. Bruner 98, 91
- Spatial and Temporal Variations of Solar Coronal Loops
S. R. Habbal, R. Ronan, and G. L. Withbroe 98, 323
- Progress in Coronal Physics (*Invited Review Paper*)
Jack B. Zirker 100, 281
- The Heating of Coronae (*Invited Review Paper*)
James A. Ionson 100, 289
- High Spatial Resolution Microwave Observations of the Sun (*Invited Review Paper*)
M. R. Kundu 100, 491
- Corona, E**
- On the 11-Years Cycle of Solar Activity
M. N. Gnevyshev 1, 107
- Photoelectric Measurements of the Green Coronal Line during the Eclipse of November 12, 1966
J. McKim Malville and Edward J. Schmahl 4, 224
- Improvement of Coronal Emission Line Photographs
Thomas Pope 8, 88
- Interferometric Investigation of the Red and Green Lines during the Total Eclipse of May 30, 1965
A. B. Delone and E. A. Makarova 9, 116
- Preliminary Report on Photographing the Solar Corona in 5303 Å with a Polaroid and a Fabry-Pérot Interferometer during the Total Eclipse of September 22, 1968
A. Delone and E. Makarova 9, 446
- On a Relation between the Indices of Solar Activity in the Photosphere and the Corona
John Xanthakis 10, 168
- Coronagraph Observations of the Coronal Condensation of 4 February 1962
H. Zirin 11, 497
- Flare-Associated Coronal Expansion Phenomena
Anton Bruzek and Howard L. DeMastus 12, 447
- Green Line Observations of the March 1970 Coronal Enhancements
Richard R. Fisher 16, 111
- Spectropolarimetric Analysis of the Solar Corona during the 12 November, 1966 Total Eclipse
B. Caccin, G. Moschi, M. Rigutti, and R. Falciani 17, 89
- The Longitudinal Distribution of the Green Coronal Activity
J. Šýkora 18, 72
- On the Abundance of Calcium in the Solar Corona
Richard R. Fisher 19, 431
- Monochromatic Observations of a Coronal Loop
Richard R. Fisher 19, 436
- Correlation of Solar Wind Velocity with $\lambda 5303$ Coronal Intensity
P. N. Pathak 20, 462
- Fine Structure in the Inner Corona Observed at the 1970 Eclipse
T. Tsubaki, H. Kurokawa, and M. Kanno 21, 305
- The Physical Conditions in Inner Corona Derived from Spectral Data of the Solar Eclipse on 7 March, 1970
E. A. Gurtovenko and K. V. Alikayeva 21, 325

- Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico
G. M. Nikolsky, R. A. Gulyaev, and K. I. Nikolskaya **21**, 332
- The Relation between the White Light and XUV Coronas on 7 March, 1970
R. Tousey and M. J. Koomen **21**, 401
- The Polarization of Coronal Emission Lines
J. M. Beckers and W. J. Wagner **21**, 439
- Interferometric Studies of Spectral Lines in the Solar Corona
Joseph G. Hirschberg, Alain Wouters, and Lyman Hazelton, Jr. **21**, 448
- Solar Cycle Variation and N-S Asymmetry of $\lambda 5303$ Coronal Intensity
P. N. Pathak **25**, 489
- Evidence for Two Maxima of Activity in the 20th Solar Cycle
S. Cuperman and A. Sternlieb **25**, 493
- The $\lambda 10747$ Coronal Line at the 1966 Eclipse. I: Emission Line Polarization
John A. Eddy, Robert H. Lee, and James P. Emerson **30**, 351
- Solar-Cycle Dependence of Galactic Cosmic Ray Flux. I: Coronal Indices
G. D. Parker **31**, 259
- Coronal Disturbances. I: Fast Transient Events Observed in the Green Coronal Emission Line during the Last Solar Cycle
H. L. DeMastus, W. J. Wagner, and R. D. Robinson **31**, 449
- Gradient de densité et température dans la basse couronne
J. L. Leroy, P. Poulain, et B. Fort **32**, 131
- An Interferometric Investigation of Emission Lines from the Solar Corona
P. M. Marshall and G. Henderson **33**, 153
- On the Polarization of the Solar Coronal Emission Lines
E. Mogilevsky, B. Ioshpa, and V. Obridko **33**, 169
- Short and Long-Term Variations in the Cosmic Ray Intensity and Their Connection with the 5303 \AA Coronal Line Intensity in Solar Cycle No. 20
N. Iucci, M. Parisi, and G. Villoresi **33**, 505
- Rigid and Differential Rotation of the Solar Corona
Ester Antonucci and Leif Svalgaard **34**, 3
- Coronal Disturbances. II: The Fast Rearrangement of Coronal Magnetic Fields
W. J. Wagner, Richard T. Hansen, and Shirley F. Hansen **34**, 453
- Eleven-Years Inversion of the Green Corona Emission
Ester Antonucci **34**, 471
- Green Corona and Solar Sector Structure
Ester Antonucci and Leif Svalgaard **36**, 115
- Observations Coronographiques avant et après les éclipses du 10 Juillet 1972 et du 30 Juin 1973
P. Poulain **36**, 339
- The Fe XIV Brightness Measurements: 30 June 1973
Richard R. Fisher **36**, 343
- Solar Cycle Variation of Large-Scale Coronal Structures
Ester Antonucci and Thomas L. Duvall **38**, 439
- On 5694 \AA Coronal Line Observations
E. I. Tetrushvili **39**, 387
- On a Cold Emission in the Solar Corona
K. V. Alikayeva **41**, 89
- On the Correlation of Coronal Green-Line Intensity and Solar Wind Velocity
E. C. Roelof, S. Cuperman, and A. Sternlieb **41**, 349
- Investigation of Emission Lines of the Solar Corona of 10 July, 1972 Using the Fabry-Pérot Etalon
I. S. Kim and G. M. Nikolsky **43**, 351
- Coronal Emission Line Profile Observations at Total Solar Eclipses. I: Airborne Instrumentation and Results
D. H. Liebenberg **44**, 331
- Coronal Emission Line Profile Observations at Total Solar Eclipses. II: 30 May 1965 Results, Deconvolution and Interpretation
D. H. Liebenberg, R. J. Bessey, and B. Watson **44**, 345

The Excitation of the Coronal Line 5303 Å

M. Waldmeier 45, 147

Interferometric Investigation of the Line of Sight Velocities in $\lambda 5303$ during the Eclipse of 11 September, 1968A. B. Delone and E. A. Makarova 45, 157 *Corrigendum* 45, 550

On Green-to-Red Line Intensity Ratio in the Solar Corona

S. Chandra and U. Narain 46, 183

Improved Solar Coronal Temperature for Equal Green and Red Line Intensities

Udit Narain and Suresh Chandra 47, 607

The Hale Solar Sector Boundary

Leif Svalgaard and John M. Wilcox 49, 177

Evidence for Temporal Variations of Coronal Emission Line Intensity and Profile

D. H. Liebenberg, R. J. Bessey, and B. Watson 50, 109

Coronal Rotation Dependence on the Solar Cycle Phase

Ester Antonucci and Maria Adele Doderò 53, 179

 $\lambda 5303$ Fe XIV Density Models of the Inner Solar Corona

R. R. Fisher 57, 119

The Solar Corona 530.3 nm in the 20th Cycle

V. Rušin, M. Rybanský, and L. Scheirich 61, 301

Numerical Simulations of the K Corona and of the $\lambda 5303$ Emission Line Corona

P. Poulain 70, 229

The Evolution and the Secondary Maximum of the Green Line Intensity

J. Xanthakis, B. Petropoulos, and H. Mavromichalaki 76, 181

North-South Asymmetries in the 530.3 nm Coronal Line from 1958 to 1980

X. Moussas, N. Papastamatiou, V. Rušin, and M. Rybanský 84, 71

Stability of the Photometric Observations of the Solar Corona and Variations of Its Intensity in the Solar Cycle 21

M. N. Gnevyshev and V. P. Mikhailutsa 90, 177

Visible Coronal Emission Associated with a Quiescent Prominence

Raymond N. Smartt and Zhenda Zhang 90, 315

High-Frequency Coronal Oscillations and Coronal Heating

Jay M. Pasachoff and Donald A. Landman 90, 325

Comparison of Coronal Emission-Line Structure and Polarization

Charles W. Querfeld and Raymond N. Smartt 91, 299

Structure of the Inner Corona Derived from Observations of the Eclipse of 16 February 1980

O. G. Badalyan, M. A. Livshits, and J. Sýkora 93, 143

Corona, F (see Corona)

Corona, K

A Concentric Ellipse Multiple-Arch System in the Solar Corona

Kuniji Saito and Charles L. Hyder 5, 61

Brightness Variations of the White Light Corona during the Years 1964-67

Richard T. Hansen, Charles J. Garcia, Shirley F. Hansen, and Harold G. Loomis 7, 417

Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data

J. David Bohlin and M. Simon 9, 183

Differential Rotation of the Electron Corona

Richard T. Hansen, Shirley F. Hansen, and Harold G. Loomis 10, 135

Coronal Polarization and Intensity at the November 12, 1966 Solar Eclipse

Warren N. Arnquist, Donald H. Menzel, and Fernando de Romaña 11, 82 *Erratum* 12, 510

Solar Coronal Streamers. I: Observed Locations, General Evolution, and Classification

J. David Bohlin 12, 240

Solar Coronal Streamers. II: Evolution of Discrete Features from the Sun to 1 AU

J. David Bohlin 13, 153

Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona

Gordon Newkirk, Jr., Robert G. Dupree, and Edward J. Schmahl 15, 15 *Erratum* 16, 250

The Structure of the Monochromatic Corona in the Surroundings of Prominences

M. Waldmeier 15, 167

Mauna Loa Coronagraph Observations around the 7 March 1970 Eclipse

Richard T. Hansen, Shirley F. Hansen, and Charles J. Garcia 15, 387

- Spectropolarimetric Analysis of the Solar Corona during the 12 November, 1966 Total Eclipse
B. Caccin, G. Moschi, M. Rigutti, and R. Falciani **17**, 89
- Observations and Discussions Concerning 'High' Polarization Features in the Solar Corona
Serge Koutchmy and Kenneth H. Schatten **17**, 117
- K-Coronal Enhancements and Chromospheric Plages
Richard T. Hansen, Shirley F. Hansen, Charles J. Garcia, and Dorothy E. Trotter **18**, 271
- Photometry of the Outer Solar Corona from Lunar-Based Observations
J. David Bohlin **18**, 450
- A Comparison of Solar EUV Intensities and K-Coronameter Measurements
George L. Withbroe **18**, 458
- The Asymmetry of Solar Activity in the Years 1959-1969
M. Waldmeier **20**, 332
- Measurements on the Lyman Alpha Corona
A. H. Gabriel **21**, 392
- The Relation between the White Light and XUV Coronas on 7 March, 1970
R. Tousey and M. J. Koomen **21**, 401
- Rocket-Coronagraph Photometry of the 7 March, 1970 Corona from 3 to 8.5 R_{\odot}
J. D. Bohlin, M. J. Koomen, and R. Tousey **21**, 408
- A Polarization-Color Effect in the K-Corona
Donald E. Billings and Young Oh **21**, 418
- Results of Polarization Observations of the Outer Corona from a Jet Aircraft
C. F. Keller **21**, 425
- Photometric Intensity and Polarization Measurements of the Solar Corona
David S. McDougal **21**, 430
- Correlation of Photospheric Magnetic Field Strength with Coronal Brightness on 7 March, 1970
G. C. J. Suffolk and S. M. Smith **21**, 481
- On Determining the Electron Density Distribution of the Solar Corona from K-Coronameter Data
Martin D. Altschuler and R. Michael Perry **23**, 410
- The Results of Coronal Investigation at the September 22, 1968 Solar Eclipse
Ts. S. Khetsuriani and E. I. Tetrushvili **25**, 343
- Evolution of Coronal Helmets during the Ascending Phase of Solar Cycle 20
Shirley F. Hansen, Richard T. Hansen, and Charles J. Garcia **26**, 202
- Threadlike Coronal Streamers
M. Waldmeier **27**, 143
- Improved Three-Dimensional Mapping of the Electron Density Distribution of the Solar Corona
R. Michael Perry and Martin D. Altschuler **28**, 435
- Observations of the Inner F and K Coronas below $\lambda 2220$
Frank Q. Orrall and R. J. Speer **29**, 41
- Solar-Cycle Dependence of Galactic Cosmic Ray Flux. I: Coronal Indices
G. D. Parker **31**, 259
- Quiet Corona Density Model for the Last Maximum of Solar Activity
Y. Leblanc, J. L. Leroy, and P. Pecantet **31**, 343
- Gradient de densité et température dans la basse couronne
J. L. Leroy, P. Poulain, et B. Fort **32**, 131
- The Coronal Transient of 16 June 1972
Martin Koomen, Russell Howard, Richard Hansen, and Shirley Hansen **34**, 447
- Coronal Disturbances. II: The Fast Rearrangement of Coronal Magnetic Fields
W. J. Wagner, Richard T. Hansen, and Shirley F. Hansen **34**, 453
- The Coronal Disturbance of 1972, August 12
Anthony C. Riddle, Einar Tandberg-Hanssen, and Richard T. Hansen **35**, 171
- Photométrie photographique de la couronne solaire. Observée au cours de l'éclipse totale du 10 juillet 1972
S. Koutchmy, N. I. Dzubenko, A. T. Nesmjanovich, and S. K. Vsekhsvjatsky **35**, 369
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . I: First Event of 1973 January 11
R. T. Stewart, Marie K. McCabe, M. J. Koomen, R. T. Hansen, and G. A. Dulk **36**, 203
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . II: Second Event of 1973 January 11
R. T. Stewart, R. A. Howard, F. Hansen, T. Gergely, and M. Kundu **36**, 219

- Observations Coronographiques avant et après les éclipses du 10 Juillet 1972 et du 30 Juin 1973
P. Poulain 36, 339
- Coronal Density Structures in Regions of Type III Activity
Y. Leblanc, T. B. H. Kuiper, and S. F. Hansen 37, 215
- Electrons in the Solar Corona. I: Electron Density Models of Streamers at Eclipse 15 February 1961
Audouin Dollfus, Marius Laffineur, and Zadig Mouradian 37, 367
- Observation of Sectorized Structure in the Outer Solar Corona: Correlation with Interplanetary Magnetic Field
R. A. Howard and M. J. Koomen 37, 469
- The Coronal Hole at the 7 March 1970 Solar Eclipse
M. Waldmeier 40, 351
- Precise Determination of the Orientation of the Plane of Polarization in the Solar Corona
A. K. Kishonkov and M. M. Molodensky 42, 341
- Determination of the Temperature of the Solar Corona from the Spectrum of the Electron-Scattering Continuum
L. E. Cram 48, 3
- Observations of Coronal Polarization at the Solar Eclipse of 7 March, 1970
J. Dürst 50, 457
- The Polarization of the Inner Solar Corona at the Eclipse of 10 July 1972
G. M. Nikolsky, A. A. Sazanov, and A. K. Kishonkov 53, 79
- Electrons in the Solar Corona. II: Coronal Streamers from K-Coronameter Measurements
Audouin Dollfus and Marie-Josèphe Martres 53, 449
- A Study of the Background Corona near Solar Minimum
Kuniji Saito, Arthur I. Poland, and Richard H. Munro 55, 121
- Temporal Evolution of the Equatorial K-Corona
R. M. MacQueen and A. I. Poland 55, 143
- Forerunners: Outer Rims of Solar Coronal Transients
B. V. Jackson and E. Hildner 60, 155
- Electrons in the Solar Corona. III: Coronal Streamers Analysis from Balloon-Borne Coronagraph
A. Dollfus and Z. Mouradian 70, 3
- Numerical Simulations of the K Corona and of the $\lambda 5303$ Emission Line Corona
P. Poulain 70, 229
- Coronal Rotation during Solar Cycle 20
G. D. Parker, R. T. Hansen, and S. F. Hansen 80, 185
- The Solar Corona on 31 July, 1981
R. R. Fisher, L. B. Lacey, K. A. Rock, E. A. Yasakawa, N. R. Sheeley, Jr., D. J. Michels, R. A. Howard, M. J. Koomen, and A. Bagrov 83, 233
- Dynamic Behaviour of the K-Corona above a Type I Radio Source
R. A. Duncan 89, 63
- Structure of the Inner Corona Derived from Observations of the Eclipse of 16 February 1980
O. G. Badalyan, M. A. Livshits, and J. Sýkora 93, 143
- Observations of the Solar Corona in Polarized White Light during the Total Solar Eclipse of February 16, 1980: Preliminary Results
F. Clette, P. Cugnon, and A. Koeckelenbergh 98, 163
- Corona, Magnetic Fields (see *Magnetic Fields, Corona*)**
- Corona, Models**
- Some General Properties of Helmeted Coronal Structures
G. W. Pneumati 3, 578
- A Concentric Ellipse Multiple-Arch System in the Solar Corona
Kuniji Saito and Charles L. Hyder 5, 61
- A Study of the Composition of the Lower Solar Corona
M. P. Nakada 7, 302
- Brightness Variations of the White Light Corona during the Years 1964-67
Richard T. Hansen, Charles J. Garcia, Shirley F. Hansen, and Harold G. Loomis 7, 417
- Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data
J. David Bohlin and M. Simon 9, 183
- Solar XUV Limb Brightening Observations. I: The Lithium-Like Ions
George L. Withbroe 11, 42

- Solar XUV Limb Brightening Observations. II: Lines Formed in the Chromospheric-Coronal Transition Region
George L. Withbroe **11**, 208
- Evidence for a Coronal Magnetic Bottle at 10 Solar Radii
Kenneth H. Schatten **12**, 484
- Magnetic Fields and the Solar Corona. III: The Observed Connection between Magnetic Fields and the Density Structure of the Corona
Gordon Newkirk, Jr. and Martin D. Altschuler **13**, 131
- Coronal Streamers. III: Energy Transport in Streamer and Interstreamer Regions
G. W. Pneuman and Roger A. Kopp **13**, 176
- The Quasi-Stationary Coronal Magnetic Field and Electron Density as Determined from a Faraday Rotation Experiment
C. T. Stelzried, G. S. Levy, T. Sato, W. V. T. Rusch, J. E. Ohlson, K. H. Schatten, and J. M. Wilcox **14**, 440
- A Study of the Composition of the Solar Corona and Solar Wind
M. P. Nakada **14**, 457
- Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona
Gordon Newkirk, Jr., Robert G. Dupree, and Edward J. Schmahl **15**, 15 *Erratum 16*, 250
- Variation on O VII X-Ray Line-Emission from the Solar Corona
H. R. Rugge and A. B. C. Walker, Jr. **15**, 372
- Green Line Observations of the March 1970 Coronal Enhancements
Richard R. Fisher **16**, 111
- The Outflow of Solar Wind from the Active Regions
G. S. Bisnovaty-Kogan and I. M. Gordon **18**, 133
- Further Results on O VII X-Ray Coronal Line Emission
H. R. Rugge and A. B. C. Walker, Jr. **18**, 244
- Gas-Magnetic Field Interactions in the Solar Corona
G. W. Pneuman and Roger A. Kopp **18**, 258
- The Asymmetry of Solar Activity in the Years 1959-1969
M. Waldmeier **20**, 332
- Coronagraphic Observations of an Enhanced Coronal Region. I: Fe XII and Ni XV Emission Line Data
R. Fisher and T. Pope **20**, 389
- Coronal Electron Density Maps for 7 March, 1970, Derived from Mg X $\lambda 625$ Spectroheliograms
G. L. Withbroe, A. K. Dupree, L. Goldberg, M. C. E. Huber, R. W. Noyes, W. H. Parkinson, and E. M. Reeves **21**, 272
- On the Coronal Lines in the Chromosphere at the 1970 Eclipse
M. Kanno, T. Tsubaki, and H. Kurokawa **21**, 314
- The Physical Conditions in Inner Corona Derived from Spectral Data of the Solar Eclipse on 7 March, 1970
E. A. Gurtovenko and K. V. Alikayeva **21**, 325
- Rocket-Coronagraph Photometry of the 7 March, 1970 Corona from 3 to 8.5 R_{\odot}
J. D. Bohlin, M. J. Koomen, and R. Tousey **21**, 408
- Analyse des renforcements coronaux à travers quelques acquisitions spectroscopiques récentes des émissions monochromatiques du fer ionisé (X à XV)
J. P. Rozelot **22**, 88
- The Interpretation of Total Line Intensities from Optically Thin Gases. III: Application to Coronal Forbidden Line Spectra
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker **22**, 327
- On Determining the Electron Density Distribution of the Solar Corona from K-Coronameter Data
Martin D. Altschuler and R. Michael Perry **23**, 410
- Étude hydrodynamique du grand jet coronal NE observé à l'éclipse du 7 Mars 1970
S. Koutchmy **24**, 373
- Coronagraphic Observations of an Enhanced Coronal Region. II: Temperature and Density Structure through the Enhanced Region
Richard R. Fisher **24**, 385
- Photographs of the Sun in the XUV-Region
M. Burger and J. H. Dijkstra **24**, 395
- The Derivation of Temperature Gradient and Electron Density Maps from EUV Spectroheliograms
George L. Withbroe **25**, 116

- On the Adjustment of Outer Solar Layer Models
I. A. Krinberg and R. B. Teplitskaya **25**, 305
- The Results of Coronal Investigation at the September 22, 1968 Solar Eclipse
Ts. S. Khetsuriani and E. I. Tetrushvili **25**, 343
- Coronal Survey in X-Rays of O VII and Ne IX
L. W. Acton, R. C. Catura, A. J. Meyerott, C. J. Wolfson, and J. L. Culhane **26**, 183
- Coronal Abundance of Elements and a Model of the Quiet Sun from Radio Observations
Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci **26**, 343
- Coronal Holes
Martin D. Altschuler, Dorothy E. Trotter, and Frank Q. Orrall **26**, 354
- A Model for the Polar Transition Layer and Corona for November 1967
George L. Withbroe and Yi-Ming Wang **27**, 394
- Core Electron Densities of Coronal Polar Plumes
Casimir J. Psujek and Richard G. Teske **27**, 420
- The Solar Wind and the Temperature-Density Structure of the Solar Corona
G. W. Pneuman **28**, 247
- Energy Budget in Coronal Holes
Giancarlo Noci **28**, 403
- Improved Three-Dimensional Mapping of the Electron Density Distribution of the Solar Corona
R. Michael Perry and Martin D. Altschuler **28**, 435
- An Investigation of the Structure of Coronal Active Regions
J. H. Parkinson **28**, 487
- X-Rays Spectroheliograms in Lines of Mg XI and Mg XII
C. Bonnelle, C. Senemaud, G. Senemaud, G. Chambre, M. Guionnet, J. C. Henoux, and R. Michard **29**, 341
- Coronal Density and Temperature Gradients
R. Grant Athay **29**, 357
- Quiet Corona Density Model for the Last Maximum of Solar Activity
Y. Leblanc, J. L. Leroy, and P. Pecantet **31**, 343
- A Dynamical Model of the Corona
Stephen L. Browne and Robert J. Bessey **31**, 351
- Identification and Analysis of Structures in the Corona from X-Ray Photography
G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81
- Gradient de densité et température dans la basse couronne
J. L. Leroy, P. Poulain, et B. Fort **32**, 131
- Distribution of Temperature and Emission Measure in a Steadily Heated Solar Atmosphere
O. P. Shmeleva and S. I. Syrovatskii **33**, 341
- On the Observation of Scattered Radio Emission from Sources in the Solar Corona
A. C. Riddle **35**, 153
- Heated Solar Atmosphere: A One-Fluid Model
Egil Leer **35**, 467
- The Structure of the Middle Corona from Observations at 80 and 160 MHz
G. A. Dulk and K. V. Sheridan **36**, 191
- Two-Fluid Model of the Solar Corona
J. W. Knight, C. E. Newman, and P. A. Sturrock **37**, 183
- Coronal Density Structures in Regions of Type III Activity
Y. Leblanc, T. B. H. Kuiper, and S. F. Hansen **37**, 215
- Electrons in the Solar Corona. I: Electron Density Models of Streamers at Eclipse 15 February 1961
Audouin Dollfus, Marius Laffineur, and Zadig Mouradian **37**, 367
- Structures in a Non-Magnetic Solar Corona
Mark A. Cross and James V. Blockwood **38**, 157
- Numerical Calculation of Thomson Scattering from Inhomogeneous Models of the Corona, and Application to Streamers of the 1970 and 1972 Eclipses
J. D. Bohlin and L. M. Garrison **38**, 165
- Absolute Abundances and Distribution of Material versus Density and Temperature in a Coronal Condensation
Françoise Magnant-Crifo **39**, 141

Étude de l'eclipse solaire partielle de 25 Fevrier, 1971 au Pic du Midi

J. P. Rozelot et G. Ratier **40**, 371

Solar-Interplanetary Modeling: 3-D Solar Wind Solutions in Prescribed Non-Radial Magnetic Field Geometries

B. R. Durney and G. W. Pneuman **40**, 461

On a Cold Emission in the Solar Corona

K. V. Alikayeva **41**, 89

Comment on the Paper 'Two-Fluid Model of the Solar Corona' by J. W. Knight, C. E. Newman, and P. A. Sturrock

Donald E. Billings **41**, 367

Reply to Billings Concerning 'Two-Fluid Model of the Solar Corona'

J. W. Knight, C. E. Newman, and P. A. Sturrock **41**, 371

Dynamic Response of an Isothermal Static Corona to Finite-Amplitude Disturbances

Y. Nakagawa, S. T. Wu, and E. Tandberg-Hanssen **41**, 387

A Coronal Hole Observed at 10.7 GHz with a Large Single Dish

E. Fürst and W. Hirth **42**, 157

EUV Analysis of an Active Region

Nirupama Raghavan and George L. Withbroe **43**, 117

The Coronal Condensation Observed at the 1973 Eclipse

Hiroki Kurokawa **43**, 385

Analysis of EUV Limb-Brightening Observations from ATM. I: Model for the Transition Layer and the Corona

John T. Mariska and George L. Withbroe **44**, 55

Heat Transfer in the Corona and Transition Region

R. G. Giovanelli **44**, 315

H and K (Ca II) Emissions as Observed in Coronal Spectrum in the July 20, 1963 Solar Eclipse

F. Cavallini and A. Righini **45**, 291

Dynamics of Coronal Hole Regions. I: Steady Polytropic Flows with Multiple Critical Points

Roger A. Kopp and Thomas E. Holzer **49**, 43

Heating of the Solar Transition Zone and Corona

D. Vanbeveren and C. De Loore **50**, 99

Structure of Coronal Holes from UV and Radio Observations

Franca Chiuderri Drago, Yvette Avignon, and Roger J. Thomas **51**, 143

On Coronal Temperatures, Temperature Gradients and Compositions

M. P. Nakada **51**, 327

Study of the June 30, 1973 Trans-Polar Coronal Hole

Serge Koutchmy **51**, 399

Radio and EUV Observations of a Coronal Hole

G. A. Dulk, K. V. Sheridan, S. F. Smerd, and G. L. Withbroe **52**, 349

Prominence Mass Ejections and Their Effects on the Corona. I: The Eruptive Prominence of 21 August 1973 and the Surge of 4 December 1973

J. B. Smith, Jr., D. M. Speich, R. M. Wilson, E. Tandberg-Hanssen, and S. T. Wu **52**, 379

Some Aspects of Coronal Streamer Dynamics

Wim J. Weber **53**, 59

EUV Analysis of Polar Plumes

Imad A. Ahmad and George L. Withbroe **53**, 397

Electrons in the Solar Corona. II: Coronal Streamers from K-Coronameter Measurements

Audouin Dollfus and Marie-Josèphe Martres **53**, 449

A Study of the Background Corona near Solar Minimum

Kuniji Saito, Arthur I. Poland, and Richard H. Munro **55**, 121

Photoelectric Observations of Fe XIV Coronal Depletion: 20 April 1976

R. R. Fisher **55**, 135

A Physical Parameter Method for the Design of Broad-Band X-Ray Imaging Systems to Do Coronal Plasma Diagnostics

S. Kahler and A. S. Krieger **56**, 351

λ 5303 Fe XIV Density Models of the Inner Solar Corona

R. R. Fisher **57**, 119

X-Ray Analysis of a Polar Plume

Imad A. Ahmad and David F. Webb **58**, 323

- Temperature Gradients in the Inner Corona
John T. Mariska and George L. Withbroe **60**, 67
- Temperature Distribution in the Transition Region and Inner Corona
Badré Alam, S. M. Razaullah Ansari, and Abdul Qaiyum **62**, 93 *Errata 67, 207*
- Skylab Observations of the Coronal Structure Overlying a Type III Producing Active Region
M. Pick, G. Trotter, and R. M. MacQueen **63**, 369
- The Structure of Coronal Arcades and the Formation of Solar Prominences
E. R. Priest and E. A. Smith **64**, 267
- Heating of Coronal Loops by Fast Mode MHD Waves
Shadia Rifai Habbal, Egil Leer, and Thomas E. Holzer **64**, 287
- Dynamics and Abundances of Ions in Coronal Holes
G. Borrini and G. Noci **64**, 367
- EUV and Radio Spectrum of Coronal Holes
Franca Chiuderi Drago **65**, 237
- A Low β Coronal Loop Model. I: Kink Instabilities in the $\beta = 0$ Limit
R. M. J. Sillen and A. Kattenberg **67**, 47 *Errata 79, 401*
- The Thermal Statics of Coronal Loops
B. Roberts and S. Frankenthal **68**, 103
- Siphon Flows in the Solar Corona
G. Noci **69**, 63
- Models of the Open Solar Atmosphere
M. A. Wragg and E. R. Priest **69**, 257
- Electrons in the Solar Corona. III: Coronal Streamers Analysis from Balloon-Borne Coronagraph
A. Dollfus and Z. Mouradian **70**, 3
- Numerical Simulations of the K Corona and of the $\lambda 5303$ Emission Line Corona
P. Poulain **70**, 229
- The Temperature-Density Structure of Coronal Loops in Hydrostatic Equilibrium
M. A. Wragg and E. R. Priest **70**, 293
- Measuring Electron Density in Coronal Active Regions. I: A K-Coronameter with a Reflex Monitor at $\lambda 5303 \text{ \AA}$
J.-C. Neons and J.-L. Leroy **73**, 81
- Density and Temperature Determination of Neutral Hydrogen in Coronal Structures
R. M. Bonnet and G. Tsiropoula **75**, 139
- The Stability and Uniqueness of Coronal Loops
I. J. D. Craig, T. D. Robb, and M. D. Rollo **76**, 331
- Non-Equilibrium Ionization in Coronal Loops
G. Borrini and G. Noci **77**, 153
- Enthalpy Flux Cooling of the Solar Corona
Steven G. Wallenhorst **77**, 167
- A Low- β Coronal Loop Model. II: Kink Instabilities in Loops Surrounded by Plasma
Arie Kattenberg and Rob Sillen **79**, 343
- Properties of Coronal Arches
John M. Davis and Allen S. Krieger **80**, 295
- Thermally Isolated Coronal Loops in Hydrostatic Equilibrium
M. A. Wragg and E. R. Priest **80**, 309
- A Relaxation Law for Evaporating and Draining Coronal Plasmas
I. J. D. Craig **84**, 105
- Flow-Tube Dynamics and Coronal Holes
D. Summers **85**, 93
- Transient Brightenings of Interconnecting Loops. III: Interpretation
Daniel S. Spicer and Zdeněk Švestka **87**, 271
- The Stability of Coronal Loops: Finite-Length and Pressure-Profile Limits
G. Einaudi and G. Van Hoven **88**, 163
- Flow in Coronal Loops with a Mass Source
Giancarlo Noci and Francesca Zuccarello **88**, 193
- A Heating Model for the Transition Zone and Inner Corona
Li Xiao Qing, Zhenda Zhang, and Zhang Youyi **91**, 289

Magnetic Fields and Thermal Structure of Solar PlasmasG. Einaudi, G. Torricelli-Ciamponi, and C. Chiuderi **92**, 99Observations of Preburst Heating and Magnetic Field Changes in a Coronal Loop at 20 cm Wavelength
Robert F. Wilson **92**, 189

Structure of the Inner Corona Derived from Observations of the Eclipse of 16 February 1980

O. G. Badalyan, M. A. Livshits, and J. Sýkora **93**, 143Measuring Electron Density in Coronal Active Regions. II: A Multichannel Coronagraph with a Photoelectric Spectrograph and a Reflex Monitor at λ 5303 ÅJ. C. Noëns, J. Pageault, and G. Ratier **94**, 117 *Errata* 95, 199

Revivals of a Coronal Arch

Zdeněk Švestka **94**, 171

Two-Dimensional Pressure Structure of a Coronal Loop

V. Krishan **97**, 183

The Magnetic and Thermodynamical Structure of a Coronal Hole

Vladimir A. Osherovich, Erast B. Gliner, Israel Tzur, and Michael L. Kuhn **97**, 251

Analysis of Loop Flows Observed on 27 March, 1980 by the UVSP Instrument during the Solar Maximum Mission

R. A. Kopp, G. Poletto, G. Noci, and M. Bruner **98**, 91**Corona, Morphology (see Corona; Corona, Structures)****Corona, Quiet (see Corona)****Corona, Radio Emission (see Corona)****Corona, Spectrum**

The Influence of Doubly Excited Levels on the Ionization Formula for the Solar Corona

Walter van Rensbergen **1**, 354

Emission of Fe XV in Coronal Conditions

O. Bely and M. Blaha **3**, 563

The Relative Abundance of Silicon and Iron in the Solar Corona

Carole Jordan and S. R. Pottasch **4**, 104

The O VI Emission from the Sun

Ben-Zion Kozlovsky and Harold Zirin **5**, 50

A Survey of Current Coronal Visible Line Identifications

William J. Wagner and Lewis L. House **5**, 55

16-40 Å Coronal X-Ray Emission during the 12 November 1966 Eclipse

H. V. Argo, J. A. Bergey, W. D. Evans, and S. Singer **5**, 551

Le Fe XII dans la couronne d'émission

J.-P. Rozelot **8**, 91

On the Identification of Ar X and Ar XIV in the Solar Corona and the Origin of the Unidentified Coronal Lines

Bengt Edlén **9**, 439The Excitation of the Forbidden Coronal Lines. I: Fe XIII $\lambda\lambda$ 10747, 10798 and 3388R. A. Chevalier and D. L. Lambert **10**, 115

Solar XUV Limb Brightening Observations. I: The Lithium-Like Ions

George L. Withbroe **11**, 42The Excitation of the Forbidden Coronal Lines. II: [Ca XV] $\lambda\lambda$ 5694 and 5446R. A. Chevalier and D. L. Lambert **11**, 243

Coronagraph Observations of the Coronal Condensation of 4 February 1962

H. Zirin **11**, 497

The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965

John T. Jefferies, Frank Q. Orrall, and J. B. Zirker **16**, 103

Spectropolarimetric Analysis of the Solar Corona during the 12 November, 1966 Total Eclipse

B. Caccin, G. Moschi, M. Rigutti, and R. Falciani **17**, 89Predicted Wavelengths of Coronal Transitions in the Configurations $3s^23p^2$, $3s^23p^3$ and $3s^23p^4$ Lars Åke Svensson **18**, 232

Further Results on O VII X-Ray Coronal Line Emission

H. R. Rugge and A. B. C. Walker, Jr. **18**, 244

- A Comparison of Solar EUV Intensities and K-Coronameter Measurements
George L. Withbroe **18**, 458
- Coronagraphic Observations of an Enhanced Coronal Region. I: Fe XII and Ni XV Emission Line Data
R. Fisher and T. Pope **20**, 389
- Fine Structure in the Inner Corona Observed at the 1970 Eclipse
T. Tsubaki, H. Kurokawa, and M. Kanno **21**, 305
- On the Coronal Lines in the Chromosphere at the 1970 Eclipse
M. Kanno, T. Tsubaki, and H. Kurokawa **21**, 314
- The Physical Conditions in Inner Corona Derived from Spectral Data of the Solar Eclipse on 7 March, 1970
E. A. Gurtovenko and K. V. Alikayeva **21**, 325
- Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico
G. M. Nikolsky, R. A. Gulyaev, and K. I. Nikolskaya **21**, 332
- Observations of the Infrared Fe XIII Lines in the Solar Corona of 12 November, 1966
Paul L. Byard and Kenneth E. Kissell **21**, 351
- Some Newly Discovered Coronal Emission Lines from High Altitude Infrared Observations of the 7 March, 1970, Solar Eclipse
Kenneth H. Olsen, Charles R. Anderson, and John N. Stewart **21**, 360
- Eclipse Observations in the Rocket Ultraviolet
T. L. J. Jones, W. H. Parkinson, R. J. Speer, and C. Yang **21**, 372
- The Identification of New Forbidden Coronal Lines in the Solar EUV Spectrum
Carole Jordan **21**, 381
- The Relation between the White Light and XUV Coronas on 7 March, 1970
R. Tousey and M. J. Koomen **21**, 401
- A Polarization-Color Effect in the K-Corona
Donald E. Billings and Young Oh **21**, 418
- The Polarization of Coronal Emission Lines
J. M. Beckers and W. J. Wagner **21**, 439
- Analyse des renforcements coronaux à travers quelques acquisitions spectroscopiques récentes des émissions monochromatiques du fer ionisé (X à XV)
J. P. Rozelot **22**, 88
- The Interpretation of Total Line Intensities from Optically Thin Gases. II: The Coronal Forbidden Lines
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker **22**, 317
- Observed Heights of EUV Lines Formed in the Transition Zone and Corona
George W. Simon and Robert W. Noyes **22**, 450
- Calculated Solar X-Radiation from 1 to 60 Å
R. Mewe **22**, 459 *Errata 23, 508 and 44, 389*
- Coronal Emission Line Polarization
Lewis L. House **23**, 103
- Sur la détermination du rapport d'intensité des raies infrarouges de l'ion Fe XIII
G. Ratier et J.-P. Rozelot **23**, 394
- Raies nouvelles observées lors de l'éclipse du 7 Mars 1970
Z. Mouradian **24**, 368
- Coronal Survey in X-Rays of O VII and Ne IX
L. W. Acton, R. C. Catura, A. J. Meyerott, C. J. Wolfson, and J. L. Culhane **26**, 183
- On Emission Lines of Hydrogen, Helium and Ionized Calcium Seen on a Coronal Spectrogram of the March 7, 1970 Eclipse
M. K. V. Bappu, J. C. Bhattacharyya, and K. R. Sivaraman **26**, 366
- Observations of the Inner F and K Coronas below $\lambda 2220$
Frank Q. Orrall and R. J. Speer **29**, 41
- Theoretical Intensity Ratios for Some Fe XIII Coronal Lines
G. D. Finn and Donald A. Landman **30**, 381 *Errata 32, 518 and 38, 279*
- The Visible Spectrum of the Lower Corona during the Total Eclipse of May 30, 1965
F. Magnant-Crifo **31**, 91
- An Interferometric Investigation of Emission Lines from the Solar Corona
P. M. Marshall and G. Henderson **33**, 153

On the Polarization of the Solar Coronal Emission Lines

E. Mogilevsky, B. Ioshpa, and V. Obridko **33**, 169

The Identification of Fe IX and Ni XI in the Solar Corona

L. Å. Svensson, J. O. Ekberg, and B. Edlén **34**, 173

Tables pour déterminer la concentration d'atomes dans un état donné: ions coronaux intéressants

J. P. Rozelot, J. C. Noens, et B. Pech **37**, 173

Observed Heights of EUV Lines Formed in the Transition Zone and Corona. II: NRL Rocket Observations

George W. Simon, Paul H. Seagraves, R. Tousey, J. D. Purcell, and Robert W. Noyes **39**, 121

Coronal Information from EUV Disk Spectral Line Intensities

D. E. Billings and Manuel Alvarez **40**, 23

On a Cold Emission in the Solar Corona

K. V. Alikayeva **41**, 89

On the Identification of Fe IX and Ni XI from Coronal Spectrum

Françoise Magnant-Crifo **41**, 109

The X-Ray Line and Continuum Emission from a Solar Active Region

P. B. Landecker and R. S. Wolff **42**, 209

Line Profile Analysis of a Coronal Formation Observed near a Quiescent Prominence: Intensities, Temperatures and Velocity Fields

Tokio Tsubaki **43**, 147

OSO-7 Results on Coronal Emission near 304 Å

M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas **43**, 337

Investigation of Emission Lines of the Solar Corona of 10 July, 1972 Using the Fabry-Pérot Etalon

I. S. Kim and G. M. Nikolsky **43**, 351

On the Reliability of the Structure of the Low Corona as Derived from Flash Spectra

Ronald Giovanelli **43**, 377

Comments on the Paper 'On the Reliability of the Structure of the Low Corona as Derived from Flash Spectra' by R. Giovanelli

Mitsuo Kanno **43**, 381

The Coronal Condensation Observed at the 1973 Eclipse

Hiroki Kurokawa **43**, 385

H and K (Ca II) Emissions as Observed in Coronal Spectrum in the July 20, 1963 Solar Eclipse

F. Cavallini and A. Righini **45**, 291

The Spectrum of Ni XIX in the Solar Corona

R. J. Hutcheon, J. P. Pye, and K. D. Evans **46**, 171

Coronal Temperatures and Temperature Gradients from OSO-7 Spectroheliograms

M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas **47**, 611

Determination of the Temperature of the Solar Corona from the Spectrum of the Electron-Scattering Continuum

L. E. Cram **48**, 3

Evidence for Temporal Variations of Coronal Emission Line Intensity and Profile

D. H. Liebenberg, R. J. Bessey, and B. Watson **50**, 109

Identification of Forbidden Coronal Lines of Fe X and Ni XII

Rikard Smitt **51**, 113

On Coronal Fe Abundances and Temperatures from XUV Emission Lines

M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas **53**, 435

The Results of Statistical Analysis of the Coronal Profiles above the Solar Active Regions

E. I. Tetrushvili **54**, 135

Autoionization Rate Coefficients for Some Coronal Ions

H. P. Mital and U. Narain **54**, 387

The Forbidden Transitions within $3s^23p^53d$ of Fe IX and Ni XI and $3s^23p^43d$ of Fe X and Ni XII

B. Edlén and R. Smitt **57**, 329

Density Dependence of Solar Emission Lines of Oxygen-Like Ions

P. K. Raju and B. N. Dwivedi **60**, 269

The Colour of the Solar Corona and Dust Grains in It

A. K. Ajmanov and G. M. Nikolsky **65**, 171

The Coronal Spectra of Fe XV and Ni XVII

A. K. Bhatia and S. O. Kastner **65**, 181

EUV and Radio Spectrum of Coronal Holes

Franca Chiuderi Drago **65**, 237

Electric Fields in Coronal Magnetic Loops

P. Foukal, P. Miller, and L. Gilliam **83**, 83

Calculation of Coronal Line Intensities for Boron-Like Ions

H. P. Saha and E. Treffitz **87**, 233

Clues to the Mode of Excitation of Fe X Ions in the Solar Corona from the 1980 Eclipse Observations

Jagdev Singh **95**, 253

Corona, Stellar (*see Stellar Physics*)

Corona, Structures

On the Dome Formation in the Corona around a Prominence Observed at the Total Eclipse of 15 February 1961

Ichiro Kawaguchi **1**, 420

Coronal Polar Plumes

Gordon Newkirk, Jr. and John Harvey **3**, 321

A Concentric Ellipse Multiple-Arch System in the Solar Corona

Kuniji Saito and Charles L. Hyder **5**, 61

Magnetic-Field Structure Associated with Coronal Streamers

P. A. Sturrock and Sheldon M. Smith **5**, 87

The Slowly Varying Component of the Solar Radio Emission around 1 cm Wavelength

Atsushi Tsuchiya **7**, 268

Interpretation of XUV Spectroheliograms

Harold Zirin **9**, 77

Magnetic Fields and the Structure of the Solar Corona. I: Methods of Calculating Coronal Fields

Martin D. Altschuler and Gordon Newkirk, Jr. **9**, 131

Preliminary Report on Photographing the Solar Corona in 5303 Å with a Polaroid and a Fabry-Pérot Interferometer during the Total Eclipse of September 22, 1968

A. Delone and E. Makarova **9**, 446

The Excitation of the Forbidden Coronal Lines. II: [Ca XV] $\lambda\lambda 5694$ and 5446

R. A. Chevalier and D. L. Lambert **11**, 243

Coronagraph Observations of the Coronal Condensation of 4 February 1962

H. Zirin **11**, 497

Magnetic Fields and the Solar Corona. III: The Observed Connection between Magnetic Fields and the Density

Structure of the Corona

Gordon Newkirk, Jr. and Martin D. Altschuler **13**, 131

Solar Coronal Streamers. II: Evolution of Discrete Features from the Sun to 1 AU

J. David Bohlin **13**, 153

Soft X-Ray Enhancement during Flares

S. D. Deshpande and J. N. Tandon **13**, 462

Comments on a Paper by H. Zirin entitled: 'Coronagraph Observations of the Coronal Condensation of 4 February, 1962'

Donald E. Billings **14**, 168

The Origin of Interplanetary Sectors from Radio Observations

M. Martres, M. Pick, and G. K. Parks **15**, 48

The Structure of the Monochromatic Corona in the Surroundings of Prominences

M. Waldmeier **15**, 167

Changes in Coronal Condensations Emission after Solar Bursts at Microwaves

Pierre Kaufmann, E. Scalise, Jr., and P. Marques dos Santos **15**, 195

Mauna Loa Coronagraph Observations around the 7 March 1970 Eclipse

Richard T. Hansen, Shirley F. Hansen, and Charles J. Garcia **15**, 387

The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965

John T. Jefferies; Frank Q. Orrall, and J. B. Zirker **16**, 103

Observations and Discussions Concerning 'High' Polarization Features in the Solar Corona

Serge Koutchmy and Kenneth H. Schatten **17**, 117

Soft X-Ray Emitting Regions in the Solar Corona

M. Landini and B. C. Monsignori Fossi **17**, 379

Photometry of the Outer Solar Corona from Lunar-Based Observations

J. David Bohlin **18**, 450

Monochromatic Observations of a Coronal Loop

Richard R. Fisher **19**, 436

Fine Structure in the Inner Corona Observed at the 1970 Eclipse

T. Tsubaki, H. Kurokawa, and M. Kanno **21**, 305

Measurements on the Lyman Alpha Corona

A. H. Gabriel **21**, 392

The Relation between the White Light and XUV Coronas on 7 March, 1970

R. Tousey and M. J. Koomen **21**, 401

A Polarization-Color Effect in the K-Corona

Donald E. Billings and Young Oh **21**, 418

Photometric Intensity and Polarization Measurements of the Solar Corona

David S. McDougal **21**, 430

Interferometric Studies of Spectral Lines in the Solar Corona

Joseph G. Hirschberg, Alain Wouters, and Lyman Hazelton, Jr. **21**, 448

Analysis of Two Active Prominences

Marcos E. Machado **23**, 353

On Determining the Electron Density Distribution of the Solar Corona from K-Coronameter Data

Martin D. Altschuler and R. Michael Perry **23**, 410

EUV Observations of the Chromospheric Network

E. M. Reeves and W. H. Parkinson **24**, 113

Evolution of Coronal Helmets during the Ascending Phase of Solar Cycle 20

Shirley F. Hansen, Richard T. Hansen, and Charles J. Garcia **26**, 202

Equatorial Coronal Arches and Geomagnetic Disturbance

C. Sawyer and Shirley F. Hansen **26**, 370

Threadlike Coronal Streamers

M. Waldmeier **27**, 143

On the Long-Term Behaviour of the Circular Polarization from Coronal Condensation Radio Emission at 4.3 cm Wavelength

M. H. Paes de Barros and P. Kaufmann **27**, 203

Core Electron Densities of Coronal Polar Plumes

Casimir J. Psujek and Richard G. Teske **27**, 420

Improved Three-Dimensional Mapping of the Electron Density Distribution of the Solar Corona

R. Michael Perry and Martin D. Altschuler **28**, 435

On the Aller's Admixture Radiation Effect during the Compression Process in the Solar Corona and Generation of Coronal Formations

R. E. Guseinov **28**, 457

Observation of a Possible Neutral Sheet in the Corona

John A. Eddy **30**, 385

The Arch Systems, Cavities and Prominences in the Helmet Streamer Observed at the Solar Eclipse, November 12, 1966

Kuniji Saito and E. Tandberg-Hanssen **31**, 105

Identification and Analysis of Structures in the Corona from X-Ray Photography

G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81

Large-Scale Structure of the Interplanetary Medium. I: High Coronal Source Longitude of the Quiet-Time Solar Wind

J. T. Nolte and E. C. Roelof **33**, 241

A Preliminary Study of the Extreme Ultraviolet Spectroheliograms from Skylab

R. Tousey, J.-D. F. Bartoe, J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, N. R. Sheeley, Jr., R. J. Schumacher, and M. E. VanHoosier **33**, 265

A Comparison of EUV Spectroheliograms and Photospheric Magnetograms

Joseph B. Gurman, George L. Withbroe, and John W. Harvey **34**, 105

Photométrie photographique de la couronne solaire. Observée au cours de l'éclipse totale du 10 juillet 1972

S. Koutchmy, N. I. Dzubenko, A. T. Nesmjanovich, and S. K. Vsekhsvjatsky **35**, 369

Curvature and Surface Distribution of the Polar Rays in the Solar Corona on 12 November 1966

J. G. Kirk and J. S. Newby **35**, 377

- Observation of Sectorized Structure in the Outer Solar Corona: Correlation with Interplanetary Magnetic Field
R. A. Howard and M. J. Koomen 37, 469
- The Fine-Structure of the Solar Atmosphere in the Far Ultraviolet
Guenter E. Brueckner and John-David F. Bartoe 38, 133
- Solar Cycle Variation of Large-Scale Coronal Structures
Ester Antonucci and Thomas L. Duvall 38, 439
- Absolute Abundances and Distribution of Material versus Density and Temperature in a Coronal Condensation
Françoise Magnant-Crifo 39, 141
- Observation of a Non-Uniform Component in the Distribution of Coronal Bright Points
L. Golub, A. S. Krieger, and G. S. Vaiana 42, 131
- The Temperature Structure and Pressure Balance of Magnetic Loops in Active Regions
P. Foukal 43, 327
- Energy Balance in a Magnetically Confined Coronal Structure Observed by OSO-7
W. M. Neupert, Y. Nakagawa, and David M. Rust 43, 359
- On the Reliability of the Structure of the Low Corona as Derived from Flash Spectra
Ronald Giovanelli 43, 377
- Comments on the Paper 'On the Reliability of the Structure of the Low Corona as Derived from Flash Spectra'
by R. Giovanelli
Mitsuo Kanno 43, 381
- The Coronal Condensation Observed at the 1973 Eclipse
Hiroki Kurokawa 43, 385
- Analysis of the Intensities and Profiles of the Spectral Line Mg XII 8.42 Å in the Solar X-Ray Spectrum
J. Jakimiec, V. V. Korneev, V. V. Krutov, I. A. Zhitnik, S. P. Łocieniak, B. Sylwester, and J. Sylwester 44, 391
- Coronal Changes Associated with a Disappearing Filament
N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, R. Tousey, J. B. Smith, Jr., D. M. Speich, E. Tandberg-Hanssen, R. M. Wilson, A. C. De Loach, R. B. Hoover, and J. P. McGuire 45, 377
- Energy Released by the Interaction of Coronal Magnetic Fields
N. R. Sheeley, Jr. 47, 173
- Photometric Study of Chromospheric and Coronal Spikes Observed during the Total Solar Eclipse of 30 June, 1973
S. Koutchmy and G. Stellmacher 49, 253
- Physics of an Active Region Loop System
Randolph H. Levine and George L. Withbroe 51, 83
- Solar Radio Type III Bursts and Coronal Density Structures
Yolande Leblanc and Jérôme de la Noë 52, 133
- On the Role of Hydromagnetic Waves in the Corona and the Base of the Solar Wind
Donat G. Wentzel 52, 163
- The Polarization of the Inner Solar Corona at the Eclipse of 10 July 1972
G. M. Nikolsky, A. A. Sazanov, and A. K. Kishonkov 53, 79
- EUV Analysis of Polar Plumes
Imad A. Ahmad and George L. Withbroe 53, 397
- Electrons in the Solar Corona. II: Coronal Streamers from K-Coronameter Measurements
Audouin Dollfus and Marie-Josèphe Martres 53, 449
- The Structure of Coronal Magnetic Loops. I: Equilibrium Theory
Claudio Chiuderi, Riccardo Giachetti, and Gerard Van Hoven 54, 107
- Soft X-Ray Observations of Large-Scale Coronal Active Region Brightenings
David M. Rust and David F. Webb 54, 403
- Temporal Evolution of the Equatorial K-Corona
R. M. MacQueen and A. I. Poland 55, 143
- The Structure of Coronal Magnetic Loops. II: MHD Stability Theory
Riccardo Giachetti, Gerard Van Hoven, and Claudio Chiuderi 55, 371
- Large-Scale Three-Dimensional Structure of the Interplanetary Magnetic Field
N. P. Korzhov 55, 505
- Reply to the Paper 'Solar Radio Type III Bursts and Coronal Density Structures' by Y. Leblanc and J. de la Noë
Claude Mercier 57, 423

The Structure of Coronal Loops

E. R. Priest 58, 57

X-Ray Analysis of a Polar Plume

Imad A. Ahmad and David F. Webb 58, 323

Forerunners: Outer Rims of Solar Coronal Transients

B. V. Jackson and E. Hildner 60, 155

Rotation and Lifetime of Coronal Features

Ester Antonucci and Maria Adele Doderò 62, 107

Slowly Moving Disturbances in the X-Ray Corona

David M. Rust and Z. Švestka 63, 279

Transient Brightenings of Interconnecting Loops. Morphology of the Sudden Brightenings

Z. Švestka and Robert Howard 63, 297

Skylab Observations of the Coronal Structure Overlying a Type III Producing Active Region

M. Pick, G. Trottet, and R. M. MacQueen 63, 369

The Structure of Coronal Arcades and the Formation of Solar Prominences

E. R. Priest and E. A. Smith 64, 267

Temporal Variations of Loop Structures in the Solar Atmosphere

N. R. Sheeley, Jr. 66, 79

Ancient Chinese Observations of Physical Phenomena Attending Solar Eclipses

P. K. Wang and G. L. Siscoe 66, 187

Thermal Stability of a Corona Heated by Fast Mode Waves

Ellen Zweibel 66, 305

The Corona Associated with Solar Filaments

Robert D. Chapman 71, 151

Measuring Electron Density in Coronal Active Regions. I: A *K*-Coronameter with a Reflex Monitor at $\lambda 5303 \text{ \AA}$

J.-C. Neons and J.-L. Leroy 73, 81

Density and Temperature Determination of Neutral Hydrogen in Coronal Structures

R. M. Bonnet and G. Tsiropoula 75, 139

Polar Coronal Plumes

Steven T. Suess 75, 145

Computation of Inner Coronal Magnetic Fields from Longitudinal Field Components on a Spherical Photosphere

G. Elwert, K. Müller, L. Thür, and P. Balz 75, 205

Radar Studies of the Non-Spherically Symmetric Solar Corona

Stanley P. Owocki, Gordon A. Newkirk, and David G. Sime 78, 317

Unusual Coronal Activity Following the Flare of 6 November 1980

Z. Švestka, B. R. Dennis, M. Pick, A. Raoult, C. G. Rapley, R. T. Stewart, and B. E. Woodgate 80, 143

Properties of Coronal Arches

John M. Davis and Allen S. Krieger 80, 295

The Properties of Coronal Voids

R. M. MacQueen, D. G. Sime, and J.-P. Picat 83, 103

An Observation of Prominence Condensation out of a Coronal Void

W. J. Wagner, G. Newkirk, Jr., and H. U. Schmidt 83, 115

The Solar Corona on 31 July, 1981

R. R. Fisher, L. B. Lacey, K. A. Rock, E. A. Yasakawa, N. R. Sheeley, Jr., D. J. Michels, R. A. Howard, M. J. Koomen, and A. Bagrov 83, 233

Broad-Band, High-Resolution Photograph of the Solar Corona February 16, 1980

K. K. Scaria 85, 235

Type I Noise Storms and the Structure of the Extreme Ultraviolet Corona

G. E. Brueckner 85, 243

Dynamic Behaviour of the *K*-Corona above a Type I Radio Source

R. A. Duncan 89, 63

Evidence for Temporal Variations in Polar Plumes

George L. Withbroe 89, 77

Visible Coronal Emission Associated with a Quiescent Prominence

Raymond N. Smartt and Zhenda Zhang 90, 315

The Coronal Disturbance ($W90^\circ$, $N25^\circ$) in the Eclipse Spectra of July 31, 1981

K. I. Nikolskaya and V. G. Utrobin 91, 141

Structure of the Inner Corona Derived from Observations of the Eclipse of 16 February 1980

O. G. Badalyan, M. A. Livshits, and J. Sýkora 93, 143

Revivals of a Coronal Arch

Zdeněk Švestka 94, 171

Coronal Temperature Measurements near a Helmet Structure Base at the 1973 Solar Eclipse

R. J. Bessey and D. H. Liebenberg 94, 239

Association of Type II Solar Radio Bursts with Coronal Structures above H α Filament Channels

R. T. Stewart 94, 379

Coronal Structures Observed at Metric Wavelengths with the Nançay Radioheliograph

C. E. Alissandrakis, P. Lantos, and E. Nicolaidis 97, 267

Observations of the Solar Corona in Polarized White Light during the Total Solar Eclipse of February 16, 1980:

Preliminary Results

F. Clette, P. Cugnon, and A. Koeckelenbergh 98, 163

Modern Observations of Solar Prominences (*Invited Review Paper*)

Tadashi Hirayama 100, 415

21 May 1980 Flare Review (*Invited Review Paper*)

Cornelis de Jager and Zdeněk Švestka 100, 435

Corona, Synoptic Observations (*see Corona*)

Corona, Temperature

Solar Abundance Determination from Ultraviolet Emission Lines

Andrea K. Dupree and Leo Goldberg 1, 229

The Solar Corona above Active Regions: A Comparison of Extreme Ultraviolet Lines with Radio Emission

Werner M. Neupert 2, 294

On the Temperature Dependence of the Ratio of O VIII Ly- α and Ly- β Radiation from the Solar Corona

A. Jacobs 5, 359

Coronal Streamers. II: Open Streamer Configurations

G. W. Pneuman 6, 255

Interferometric Investigation of the Red and Green Lines during the Total Eclipse of May 30, 1965

A. B. Delone and E. A. Makarova 9, 116

Strong Coronal Shocks and 'Thermal' Solar X-Ray Bursts

Charles L. Hyder 14, 196

Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona

Gordon Newkirk, Jr., Robert G. Dupree, and Edward J. Schmahl 15, 15 Erratum 16, 250

The Outflow of Solar Wind from the Active Regions

G. S. Bisnovaty-Kogan and I. M. Gordon 18, 133

A Comparison of Solar EUV Intensities and K-Coronameter Measurements

George L. Withbroe 18, 458

The Asymmetry of Solar Activity in the Years 1959-1969

M. Waldmeier 20, 332

Coronagraphic Observations of an Enhanced Coronal Region. I: Fe XII and Ni XV Emission Line Data

R. Fisher and T. Pope 20, 389

Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico

G. M. Nikolsky, R. A. Gulyaev, and K. I. Nikolskaya 21, 332

Interferometric Studies of Spectral Lines in the Solar Corona

Joseph G. Hirschberg, Alain Wouters, and Lyman Hazelton, Jr. 21, 448

Analyse des renforcements coronaux à travers quelques acquisitions spectroscopiques récentes des émissions monochromatiques du fer ionisé (X à XV)

J. P. Rozelot 22, 88

The Interpretation of XUV Rocket Measurements of Intensity Ratios of Solar Spectral Lines of the Lithiumlike Ions O VI, Ne VIII, and Mg X

L. Heroux, M. Cohen, and Monique Malinovsky 23, 369

The Derivation of Temperature Gradient and Electron Density Maps from EUV Spectroheliograms

George L. Withbroe 25, 116

The Results of Coronal Investigation at the September 22, 1968 Solar Eclipse

Ts. S. Khetsuriani and E. I. Tetrushvili 25, 343

Coronal Survey in X-Rays of O VII and Ne IX

L. W. Acton, R. C. Catura, A. J. Meyerott, C. J. Wolfson, and J. L. Culhane **26**, 183

Coronal Density and Temperature Gradients

R. Grant Athay **29**, 357

Identification and Analysis of Structures in the Corona from X-Ray Photography

G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81

Gradient de densité et température dans la basse couronne

J. L. Leroy, P. Poulain, et B. Fort **32**, 131

An Interferometric Investigation of Emission Lines from the Solar Corona

P. M. Marshall and G. Henderson **33**, 153

The Profile and Polarization of the Coronal $L\alpha$ Line

Jacques M. Beckers and Eric Chipman **34**, 151

Measurement of the X-Ray Emission of the Solar Atmosphere during a Period of Low Activity

Richard S. Wolff **34**, 163

On the Determination of Coronal Temperature from the Decay of Type III Radio Bursts

A. C. Riddle **34**, 181

The Quiet Corona: Temperature and Temperature Gradient

S. J. Bame, J. R. Asbridge, W. C. Feldman, and P. D. Kearney **35**, 137

On the Observation of Scattered Radio Emission from Sources in the Solar Corona

A. C. Riddle **35**, 153

Two-Fluid Model of the Solar Corona

J. W. Knight, C. E. Newman, and P. A. Sturrock **37**, 183

Coronal Temperatures from 'Frozen-In' Solar Wind Ions and Optical Line Profiles

D. E. Billings **38**, 181

Coronal Information from EUV Disk Spectral Line Intensities

D. E. Billings and Manuel Alvarez **40**, 23

Observed Coronal Temperatures at $1.37 R_{\odot}$ in the Region of a Helmet Structure

D. H. Liebenberg, R. J. Bessey, and B. Watson **40**, 387

Comment on the Paper 'Two-Fluid Model of the Solar Corona' by J. W. Knight, C. E. Newman, and P. A. Sturrock

Donald E. Billings **41**, 367

Reply to Billings Concerning 'Two-Fluid Model of the Solar Corona'

J. W. Knight, C. E. Newman, and P. A. Sturrock **41**, 371

The X-Ray Line and Continuum Emission from a Solar Active Region

P. B. Landecker and R. S. Wolff **42**, 209

EUV Analysis of an Active Region

Nirupama Raghavan and George L. Withbroe **43**, 117

Line Profile Analysis of a Coronal Formation Observed near a Quiescent Prominence: Intensities, Temperatures and Velocity Fields

Tokio Tsubaki **43**, 147

The Temperature Structure and Pressure Balance of Magnetic Loops in Active Regions

P. Foukal **43**, 327

Analysis of EUV Limb-Brightening Observations from ATM. I: Model for the Transition Layer and the Corona

John T. Mariska and George L. Withbroe **44**, 55

Coronal Emission Line Profile Observations at Total Solar Eclipses. II: 30 May 1965 Results, Deconvolution and Interpretation

D. H. Liebenberg, R. J. Bessey, and B. Watson **44**, 345

Analysis of the Intensities and Profiles of the Spectral Line Mg XII 8.42 Å in the Solar X-Ray Spectrum

J. Jakimiec, V. V. Korneev, V. V. Krutov, I. A. Zhitnik, S. P. Łocieniak, B. Sylwester, and J. Sylwester **44**, 391

H and K (Ca II) Emissions as Observed in Coronal Spectrum in the July 20, 1963 Solar Eclipse

F. Cavallini and A. Righini **45**, 291

The Analysis of XUV Emission Lines

George L. Withbroe **45**, 301

The Interpretation of Simultaneous Soft X-Ray Spectroscopic and Imaging Observations of an Active Region

J. M. Davis, M. Gerassimenko, A. S. Krieger, and G. S. Vaiana **45**, 393

- On Green-to-Red Line Intensity Ratio in the Solar Corona
S. Chandra and U. Narain **46**, 183
- Improved Solar Coronal Temperature for Equal Green and Red Line Intensities
Udit Narain and Suresh Chandra **47**, 607
- Coronal Temperatures and Temperature Gradients from OSO-7 Spectroheliograms
M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas **47**, 611
- Determination of the Temperature of the Solar Corona from the Spectrum of the Electron-Scattering Continuum
L. E. Cram **48**, 3
- Heating of the Solar Transition Zone and Corona
D. Vanbeveren and C. De Loore **50**, 99
- Evidence for Temporal Variations of Coronal Emission Line Intensity and Profile
D. H. Liebenberg, R. J. Bessey, and B. Watson **50**, 109
- On Coronal Temperatures, Temperature Gradients and Compositions
M. P. Nakada **51**, 327
- EUV Analysis of Polar Plumes
Imad A. Ahmad and George L. Withbroe **53**, 397
- On Coronal Fe Abundances and Temperatures from XUV Emission Lines
M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas **53**, 435
- The Effects of Scattering on Quiet Sun Emission at Frequencies Less than 200 MHz
J. N. McMullin and H. L. Helfer **53**, 471
- On the Temperature Distribution in the Solar Corona
H. P. Mital and Udit Narain **56**, 121
- Temperature Gradients in the Inner Corona
John T. Mariska and George L. Withbroe **60**, 67
- The Quantitative Interpretation of Solar X-Ray Images
M. Gerassimenko and J. T. Nolte **60**, 299
- Further Remarks on the Analysis and Interpretation of Solar X-Ray Photographs
J. H. Underwood and D. L. McKenzie **60**, 311
- Physical Parameters in Long-Decay Coronal Enhancements
W. J. MacCombie and D. M. Rust **61**, 69
- Temperature Distribution in the Transition Region and Inner Corona
Badré Alam, S. M. Razaullah Ansari, and Abdul Qiayum **62**, 93 *Errata* 67, 207
- Constraints on the Solar Coronal Temperature in Regions of Open Magnetic Field
Egil Leer and Thomas E. Holzer **63**, 143
- X-Ray Temperature-Emission Measure Modeling of the Solar Corona
G. G. Cohen and D. W. Keith **63**, 165
- Temporal Variations of Loop Structures in the Solar Atmosphere
N. R. Sheeley, Jr. **66**, 79
- On the Physics of a Long Decay X-Ray Event
K. R. Krall, J. B. Smith, Jr., and J. P. McGuire **66**, 371
- Morphology and Spatial Distribution of XUV and X-Ray Emissions in an Active Region Observed from Skylab
Chung-Chieh Cheng, J. B. Smith, Jr., and E. Tandberg-Hanssen **67**, 259
- Type III Bursts and Coronal Temperature
M. Karlický **71**, 381
- Analysis of the High Resolution Mg XI X-Ray Spectra. II: Physical Parameters of the Plasma in Active Region
McMath 14352
M. Siarkowski, J. Sylwester, G. Bromboszcz, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Urnov, I. A. Zhitnik, and S. Vasha **77**, 183
- Enthalpy Flux Cooling of the Solar Corona. II: Applications to Closed Coronal Structures
Steven G. Wallenhorst **79**, 333
- Plasma Flow around Coronal Loops
Satoshi Hinata **80**, 173
- The Quiet Sun Brightness Temperature at 127 MHz
Kazimierz M. Borkowski **81**, 207
- Line Profile Analysis of an Active Region Corona Observed Successively at the East and West Limb
Tokio Tsubaki **87**, 57

Spatial Profiles of Lines in Active Region Loops

V. Krishan **88**, 155

Evidence for Temporal Variations in Polar Plumes

George L. Withbroe **89**, 77

Coronal Temperature Measurements near a Helmet Structure Base at the 1973 Solar Eclipse

R. J. Bessey and D. H. Liebenberg **94**, 239

Corona, Velocity Fields (*see Velocity Fields*)

Coronal Arches (*see Corona, Structures*)

Coronal Condensations (*see Corona, Structures*)

Coronal Heating (*see Heating, Atmospheric*)

Coronal Holes

Coronal Holes

Martin D. Altschuler, Dorothy E. Trotter, and Frank Q. Orrall **26**, 354

The Solar Wind and the Temperature-Density Structure of the Solar Corona

G. W. Pneuman **28**, 247

Energy Budget in Coronal Holes

Giancarlo Noci **28**, 403

A Coronal Hole and Its Identification as the Source of a High Velocity Solar Wind Stream

A. S. Krieger, A. F. Timothy, and E. C. Roelof **29**, 505

Identification and Analysis of Structures in the Corona from X-Ray Photography

G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81

A Preliminary Study of the Extreme Ultraviolet Spectroheliograms from Skylab

R. Tousey, J.-D. F. Bartoe, J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, N. R. Sheeley, Jr., R. J. Schumacher, and M. E. VanHoosier **33**, 265

The Structure of the Middle Corona from Observations at 80 and 160 MHz

G. A. Dulk and K. V. Sheridan **36**, 191

The Fine-Structure of the Solar Atmosphere in the Far Ultraviolet

Gunter E. Brueckner and John-David F. Bartoe **38**, 133

The Coronal Hole at the 7 March 1970 Solar Eclipse

M. Waldmeier **40**, 351

The Structure and Evolution of Coronal Holes

A. F. Timothy, A. S. Krieger, and G. S. Vaiana **42**, 135

A Coronal Hole Observed at 10.7 GHz with a Large Single Dish

E. Fürst and W. Hirth **42**, 157

The Quiet Sun Brightness Temperature at 408 MHz

Y. Avignon, P. Lantos, F. Palagi, and P. Patriarchi **45**, 141

An Atlas of Coronal Hole Boundary Positions May 28 to November 21, 1973

J. T. Nolte, A. S. Krieger, A. F. Timothy, G. S. Vaiana, and M. V. Zombeck **46**, 291 *Erratum/Replacement Figure: Fig. 1a - 53, 547*

Coronal Holes as Sources of Solar Wind

J. T. Nolte, A. S. Krieger, A. F. Timothy, R. E. Gold, E. C. Roelof, G. Vaiana, A. J. Lazarus, J. D. Sullivan, and P. S. McIntosh **46**, 303 *Erratum/Replacement Figure: Fig. 2 - 53, 547*

Differential Rotation of Photospheric Magnetic Fields Associated with Coronal Holes

W. M. Adams **47**, 601

Dynamics of Coronal Hole Regions. I: Steady Polytopic Flows with Multiple Critical Points

Roger A. Kopp and Thomas E. Holzer **49**, 43

Association of X-Ray Arches with Chromospheric Neutral Lines

Patrick S. McIntosh, A. S. Krieger, J. T. Nolte, and G. Vaiana **49**, 57

Observation of a Coronal Hole at 85 GHz

M. R. Kundu and Sou-Yang Liu **49**, 267

Coronal Holes, Solar Wind Streams, and Recurrent Geomagnetic Disturbances: 1973-1976

N. R. Sheeley, Jr., J. W. Harvey, and W. C. Feldman **49**, 271

Observations of Coronal Polarization at the Solar Eclipse of 7 March, 1970

J. Düst **50**, 457

- Structure of Coronal Holes from UV and Radio Observations
 Franca Chiuderi Drago, Yvette Avignon, and Roger J. Thomas 51, 143
- An Explanation of the Observed Differences between Coronal Holes and Quiet Coronal Regions
 A. G. Hearn 51, 159
- Extreme-Ultraviolet Observations of Coronal Holes. I: Locations, Sizes and Evolution of Coronal Holes, June 1973-January 1974
 J. D. Bohlin 51, 377
- Study of the June 30, 1973 Trans-Polar Coronal Hole
 Serge Koutchmy 51, 399
- The Calcium K-Line Network in Coronal Holes
 K. A. Marsh 52, 343
- Radio and EUV Observations of a Coronal Hole
 G. A. Dulk, K. V. Sheridan, S. F. Smerd, and G. L. Withbroe 52, 349
- EUV Analysis of Polar Plumes
 Imad A. Ahmad and George L. Withbroe 53, 397
- The Si IV $\lambda 1393$ Line in a Coronal Hole Compared to the Quiet Sun from OSO-8 Observations
 Michael H. Francis and Robert Roussel-Dupré 53, 465
- Observations of the Birth of a Small Coronal Hole
 Graig V. Solodyna, Allen S. Krieger, and Jerome T. Nolte 54, 123
- Coronal X-Ray Holes and the Quiet Radio Sun at 2800 MHz
 Arthur E. Covington 54, 393
- On the Nature of Photospheric Magnetic Fields beneath Large Coronal Holes
 S. Frankenthal and A. S. Krieger 55, 83
- Thermally Conductive Flows in Coronal Holes
 R. S. Steinolfson and E. Tandberg-Hanssen 55, 99
- A Study of the Background Corona near Solar Minimum
 Kuniji Saito, Arthur I. Poland, and Richard H. Munro 55, 121
- Open Magnetic Fields in Active Regions
 Zdeněk Švestka, Graig V. Solodyna, Robert Howard, and Randolph H. Levine 55, 359
- Extreme Ultraviolet Observations of Coronal Holes. II: Association of Holes with Solar Magnetic Fields and a Model for Their Formation during the Solar Cycle
 J. D. Bohlin and N. R. Sheeley, Jr. 56, 125
- Coronal Hole Evolution by Sudden Large Scale Changes
 Jerome T. Nolte, Michel Gerassimenko, Allen S. Krieger, and Craig V. Solodyna 56, 153
- A Survey of Coronal Holes and Their Solar Wind Associations throughout Sunspot Cycle 20
 R. M. Broussard, N. R. Sheeley, Jr., R. Tousey, and J. H. Underwood 56, 161
- D₃ Spicules and the Lower Chromosphere
 K. A. Marsh 57, 37
- Short Term Evolution of Coronal Hole Boundaries
 Jerome T. Nolte, Allen S. Krieger, and Craig V. Solodyna 57, 129
- Area Variation with Temperature of Supergranule Network Features in the Solar Transition Zone
 Edward J. Eadon and Donald E. Billings 58, 31
- Evidence Linking Coronal Transients to the Evolution of Coronal Holes
 David F. Webb, Patrick S. McIntosh, Jerome T. Nolte, and Craig V. Solodyna 58, 389
- The Equatorward Extent of Auroral Activity during 1973-74
 N. R. Sheeley, Jr. 58, 405
- Coronal Holes, Solar Wind Streams, and Geomagnetic Activity during the New Sunspot Cycle
 N. R. Sheeley, Jr. and J. W. Harvey 59, 159
- On the Reality of Potential Magnetic Fields in the Solar Corona
 G. W. Pneuman, S. F. Hansen, and R. T. Hansen 59, 313
- The Relationship between Solar Activity and Coronal Hole Evolution
 J. T. Nolte, J. M. Davis, M. Gerassimenko, A. S. Krieger, C. V. Solodyna, and L. Golub 60, 143
- Coronal Hole Boundary Brightness in $\lambda 284$ of Fe XV
 M. P. Nakada 62, 343
- Polar Coronal Holes and Solar Cycles
 Paul A. Simon 63, 399

Mass Flow and the Validity of Ionization Equilibrium on the Sun

JoAnn Joselyn, R. H. Munro, and T. E. Holzer **64**, 57

Dynamics and Abundances of Ions in Coronal Holes

G. Borriani and G. Noci **64**, 367

Analysis of the Supergranulation Structure in Coronal Holes

G. Calamai, F. Chiuderi Drago, and G. Pettini **65**, 167

The Evolution of the Polar Coronal Holes

N. R. Sheeley, Jr. **65**, 229

EUV and Radio Spectrum of Coronal Holes

Franca Chiuderi Drago **65**, 237

Synoptic Charts of Solar 9.1 cm and Coronal Hole Data

Fred L. Wefer and Michael D. Papagiannis **67**, 13

A Semi-Analytical Approach to Time-Dependent Coronal Expansion

Roger A. Kopp **68**, 307

Central Meridian Passage Dates of Coronal Holes, Inferred from East-West Solar Scans at 692 and 1415 MHz, for the Period January 1968-January 1974

Brian G. Ferguson **69**, 185

Models of the Open Solar Atmosphere

M. A. Wragg and E. R. Priest **69**, 257

Alfvén Waves in the Solar Atmosphere. II: Open and Closed Magnetic Flux Tubes

Joseph V. Hollweg **70**, 25

Coronal Holes, Solar Wind Streams, and Geomagnetic Disturbances during 1978 and 1979

N. R. Sheeley, Jr. and J. W. Harvey **70**, 237

Cyclic Variations of the Polar Coronal Hole

M. Waldmeier **70**, 251

Energy Balance of the Corona and the Origin of Quasi-Stationary High-Speed Solar Wind Streams

V. A. Kovalenko **73**, 383

Coronal Holes: Mass Loss Driven by Magnetic Reconnection

D. J. Mullan and I. A. Ahmad **75**, 347

Correlation of High Latitude Coronal Holes with Solar Wind Streams far above or below the Ecliptic

Kile B. Baker and Michael D. Papagiannis **78**, 365

Magnetic Measurements of Coronal Holes during 1975-1980

K. L. Harvey, N. R. Sheeley, Jr., and J. W. Harvey **79**, 149

Open Magnetic Fields and the Solar Cycle. I: Photospheric Sources of Open Magnetic Flux

Randolph H. Levine **79**, 203

Determination and Analysis of Coronal Hole Radio Spectra

Michael D. Papagiannis and Kile B. Baker **79**, 365

Transient Response of the Solar Wind to Changes in Flow Geometry. Flows in Coronal Holes

S. S. Hasan and P. Venkatakrishnan **80**, 385

The Quiet Sun Brightness Temperature at 127 MHz

Kazimierz M. Borkowski **81**, 207

Self-Consistent Magnetohydrodynamic Coronal Hole Flows

Barry J. Robertson **83**, 63

Trente Cinq de Années Mesures Systématiques de l'Intensité de la Couronne d'Emission en dehors des Éclipses (Thirty-Five Years of Patrol Measurements of the Intensity of the Solar Corona outside Eclipses)

J. P. Rozelot and M. Fulconis **84**, 77 *Addendum* 88, 392

Flow-Tube Dynamics and Coronal Holes

D. Summers **85**, 93

Comparison of Coronal Holes Observed in Soft X-Ray and He I 10830 Å Spectroheliograms

S. W. Kahler, J. M. Davis, and J. W. Harvey **87**, 47

Expansion of the Solar Wind from a Two-Hole Corona

Y. C. Whang **88**, 343

Evidence for Temporal Variations in Polar Plumes

George L. Withbroe **89**, 77

He I 10830 Observations of the 3N/M4.0 Flare of 4 September, 1982

Karen L. Harvey and Frank Recely **91**, 127

- Observations of the Reappearance of Polar Coronal Holes and the Reversal of the Polar Magnetic Field
D. F. Webb, J. M. Davis, and P. S. McIntosh 92, 109
- Small-Scale Flux Emergence and the Evolution of Equatorial Coronal Holes
John M. Davis 95, 73
- Differential Rotation of Coronal Holes
Rajendra N. Shelke and M. C. Pande 95, 193
- Solar Noise Storms and Magnetic Sector Structures
R. T. Stewart 96, 381
- The Magnetic and Thermodynamical Structure of a Coronal Hole
Vladimir A. Osherovich, Erast B. Gliner, Israel Tzur, and Michael L. Kuhn 97, 251
- Coronal Structures Observed at Metric Wavelengths with the Nançay Radioheliograph
C. E. Alissandrakis, P. Lantos, and E. Nicolaïdis 97, 267
- The Solar Causes of Geomagnetic Disturbances
V. P. Mikhailutsa and M. N. Gnevyshev 98, 387
- Progress in Coronal Physics (*Invited Review Paper*)
Jack B. Zirker 100, 281
- Coronal Mass Ejections**
- Flare-Associated Coronal Expansion Phenomena
Anton Bruzek and Howard L. DeMastus 12, 447
- Evidence for a Coronal Magnetic Bottle at 10 Solar Radii
Kenneth H. Schatten 12, 484
- Coronal Disturbances. I: Fast Transient Events Observed in the Green Coronal Emission Line during the Last Solar Cycle
H. L. DeMastus, W. J. Wagner, and R. D. Robinson 31, 449
- Decameter Type IV Bursts Associated with Coronal Transients
T. E. Gergely and M. R. Kundu 34, 433
- The Coronal Transient of 16 June 1972
Martin Koomen, Russell Howard, Richard Hansen, and Shirley Hansen 34, 447
- Coronal Disturbances. II: The Fast Rearrangement of Coronal Magnetic Fields
W. J. Wagner, Richard T. Hansen, and Shirley F. Hansen 34, 453
- The Coronal Disturbance of 1972, August 12
Anthony C. Riddle, Einar Tandberg-Hanssen, and Richard T. Hansen 35, 171
- Observations of Coronal Disturbances from 1 to $9 R_{\odot}$. I: First Event of 1973 January 11
R. T. Stewart, Marie K. McCabe, M. J. Koomen, R. T. Hansen, and G. A. Dulk 36, 203
- Observations of Coronal Disturbances from 1 to $9 R_{\odot}$. II: Second Event of 1973 January 11
R. T. Stewart, R. A. Howard, F. Hansen, T. Gergely, and M. Kundu 36, 219
- Direct Observations of a Flare Related Coronal and Solar Wind Disturbance
J. T. Gosling, E. Hildner, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 40, 439
- Dynamic Response of an Isothermal Static Corona to Finite-Amplitude Disturbances
Y. Nakagawa, S. T. Wu, and E. Tandberg-Hanssen 41, 387
- The Large Coronal Transient of 10 June 1973. I: Observational Description
E. Hildner, J. T. Gosling, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 42, 163
- Evidence for Downflow Following a Coronal Transient?
E. Hildner and W. C. Livingston 42, 391
- The Sources of Material Comprising a Mass Ejection Coronal Transient
E. Hildner, J. T. Gosling, R. T. Hansen, and J. D. Bohlin 45, 363
- Frequency of Coronal Transients and Solar Activity
E. Hildner, J. T. Gosling, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 48, 127
- Type II-IV Radio Bursts and Compact and Diffuse White-Light Clouds in the Outer Corona of December 14, 1971
Takeo Kosugi 48, 339
- Expansion of an X-Ray Coronal Arch into the Outer Corona
David M. Rust and Ernest Hildner 48, 381
- The Speeds of Coronal Mass Ejection Events
J. T. Gosling, E. Hildner, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 48, 389

- White Light and Radio Studies of the Coronal Transient of 14-15 September 1973: I: Material Motions and Magnetic Field
G. A. Dulk, S. F. Smerd, R. M. MacQueen, J. T. Gosling, A. Magun, R. T. Stewart, K. V. Sheridan, R. D. Robinson, and S. Jacques **49**, 369 *Erratum/Replacement Figure: Fig. 1 - 53, 547*
- Prominence Mass Ejections and Their Effects on the Corona. I: The Eruptive Prominence of 21 August 1973 and the Surge of 4 December 1973
J. B. Smith, Jr., D. M. Speich, R. M. Wilson, E. Tandberg-Hanssen, and S. T. Wu **52**, 379
- Photoelectric Observations of Fe XIV Coronal Depletion: 20 April 1976
R. R. Fisher **55**, 135
- Coronal Mass-Ejections-Kinematics of the 19 December 1973 Event
E. Schmahl and E. Hildner **55**, 473
- The Decay of Coronal Loops Brightened by Flares and Transients
Allen S. Krieger **56**, 107
- Can Coronal Loop Transients Be Driven Magnetically?
Ulrich Anzer **57**, 111
- The Association of Nonthermal Electrons with Non-Flaring Coronal Transients
D. F. Webb and M. R. Kundu **57**, 155
- Prompt Solar Proton Events and Coronal Mass Ejections
S. W. Kahler, E. Hildner, and M. A. I. Van Hollebeke **57**, 429
- Evidence Linking Coronal Transients to the Evolution of Coronal Holes
David F. Webb, Patrick S. McIntosh, Jerome T. Nolte, and Craig V. Solodyna **58**, 389
- Forerunners: Outer Rims of Solar Coronal Transients
B. V. Jackson and E. Hildner **60**, 155
- The Onset of Coronal Transients
W. van Tend **61**, 89
- Mass Flow in Loop Type Coronal Transients
U. Anzer and A. I. Poland **61**, 95
- The Association of Coronal Mass Ejection Transients with Other Forms of Solar Activity
R. H. Munro, J. T. Gosling, E. Hildner, R. M. MacQueen, A. I. Poland, and C. L. Ross **61**, 201
- Eruptive Prominences and Coronal Transients
G. W. Pneuman **65**, 369
- The Orientation of Pre-Transient Coronal Magnetic Fields
Gerard Trottet and R. M. MacQueen **68**, 177
- Coronal Transients near Sunspot Maximum
A. I. Poland, R. A. Howard, M. J. Koomen, D. J. Michels, and N. R. Sheeley, Jr. **69**, 169
- An Acceleration Mechanism for Loop Transients in the Outer Corona
Tyan Yeh and Murray Dryer **71**, 141
- Forerunners: Early Coronal Manifestations of Solar Mass Ejection Events
Bernard V. Jackson **73**, 133
- Solar Radio Bursts of Spectral Type II, Coronal Shocks, and Optical Coronal Transients
Alan Maxwell and Murray Dryer **73**, 313
- Kinematical Analysis of Flare Spray Ejecta Observed in the Corona
D. F. Webb and B. V. Jackson **73**, 341
- A Magnetohydrodynamic Theory of Coronal Loop Transients
Tyan Yeh **78**, 287
- Magnetic Reconnection and Coronal Transients
U. Anzer and G. W. Pneuman **79**, 129
- Coronal Transients: Loop or Bubble?
F. Crifo, J. P. Picat, and M. Cailloux **83**, 143
- A White-Light/Fe X H α Coronal Transient Observation to 10 Solar Radii
W. J. Wagner, R. M. E. Illing, C. B. Sawyer, L. L. House, N. R. Sheeley, Jr., R. A. Howard, M. J. Koomen, D. J. Michels, R. N. Smartt, and M. Dryer **83**, 153
- Magnetohydrodynamic Simulation of the Coronal Transient Associated with the Solar Limb Flare of 1980, June 29, 18:21 UT
S. T. Wu, S. Wang, M. Dryer, A. I. Poland, D. G. Sime, C. J. Wolfson, L. E. Orwig, and A. Maxwell **85**, 351

- A Comparison of High-Energy Events in the Quiet Sun with Solar Flares
G. E. Brueckner **86**, 259
- Dynamic Behaviour of the *K*-Corona above a Type I Radio Source
R. A. Duncan **89**, 63
- The Kinematics of Solar Inner Coronal Transients
R. M. MacQueen and R. R. Fisher **89**, 89
- The GLE-Associated Flare of 21 August, 1979
E. W. Cliver, S. W. Kahler, H. V. Cane, M. J. Koomen, D. J. Michels, R. A. Howard, and N. R. Sheeley, Jr. **89**, 181
- Radio and Visible-Light Observations of a Coronal Arcade Transient
T. E. Gergely, M. R. Kundu, F. T. Erskine, III, C. Sawyer, W. J. Wagner, R. Illing, L. L. House, M. K. McCabe, R. T. Stewart, G. J. Nelson, M. J. Koomen, D. Michels, R. Howard, and N. Sheeley **90**, 161
- Are Interplanetary Magnetic Clouds Manifestations of Coronal Transients at 1 AU?
Robert M. Wilson and Ernest Hildner **91**, 169
- Homologous Type II Radio Bursts and Coronal Transients
R. T. Stewart **92**, 343
- Characteristics of Flares Producing Metric Type II Bursts and Coronal Mass Ejections
S. Kahler, N. R. Sheeley, Jr, R. A. Howard, M. J. Koomen, and D. J. Michels **93**, 133
- Type II Radio Emission in Coronal Transients
R. S. Steinolfson **94**, 193
- The 'Melon-Seed' Mechanism and Coronal Transients
G. W. Pneuman **94**, 387
- Hydromagnetic Buoyancy Force in the Solar Atmosphere
Tyan Yeh **95**, 83
- Coronal Mass Ejections: Acceleration and Surface Associations
R. M. MacQueen **95**, 359
- Helios Observations of the Earthward-Directed Mass Ejection of 27 November, 1979
B. V. Jackson **95**, 363
- A Positional Comparison between Coronal Mass Ejection Events and Solar Type II Bursts
R. D. Robinson and R. T. Stewart **97**, 145
- White-Light Coronal Transients Observed from Skylab May 1973 to February 1974: A Classification by Apparent Morphology
R. H. Munro and D. G. Sime **97**, 191
- The X-Ray Signature of Solar Coronal Mass Ejections
R. A. Harrison, P. W. Waggett, R. D. Bentley, K. J. H. Phillips, M. Bruner, M. Dryer, and G. M. Simnett **97**, 387
- A Piston-Driven Shock in the Solar Corona
Alan Maxwell, Murray Dryer, and Patrick McIntosh **97**, 401
- H α Manifestation of an Energetic Limb Flare, June 21, 1980
Marie K. McCabe **98**, 127
- White-Light and Radio Sounding Observations of Coronal Transients
M. K. Bird, H. Volland, R. A. Howard, M. J. Koomen, D. J. Michels, N. R. Sheeley, Jr., J. W. Armstrong, B. L. Seidel, C. T. Stelzried, and R. Woo **98**, 341
- Visibility and Rate of Coronal Mass Ejections
C. Sawyer **98**, 369
- The Onset of Coronal Mass Ejections
G. M. Simnett and R. A. Harrison **99**, 291
- Progress in Coronal Physics (*Invited Review Paper*)
Jack B. Zirker **100**, 281
- Imaging of Coronal Mass Ejections by the Helios Spacecraft (*Invited Review Paper*)
B. V. Jackson **100**, 563
- Coronal Polar Plumes** (*see Corona, Structures*)
- Coronal Streamers**
- Some General Properties of Helmeted Coronal Structures
G. W. Pneuman **3**, 578

- A Concentric Ellipse Multiple-Arch System in the Solar Corona
Kuniji Saito and Charles L. Hyder **5**, 61
- Magnetic-Field Structure Associated with Coronal Streamers
P. A. Sturrock and Sheldon M. Smith **5**, 87
- Coronal Streamers. II: Open Streamer Configurations
G. W. Pneuman **6**, 255
- Type III Radio Bursts in the Outer Corona
J. K. Alexander, H. H. Malitson, and R. G. Stone **8**, 388
- Solar Coronal Streamers. I: Observed Locations, General Evolution, and Classification
J. David Bohlin **12**, 240
- Solar Coronal Streamers. II: Evolution of Discrete Features from the Sun to 1 AU
J. David Bohlin **13**, 153
- Coronal Streamers. III: Energy Transport in Streamer and Interstreamer Regions
G. W. Pneuman and Roger A. Kopp **13**, 176
- Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona
Gordon Newkirk, Jr., Robert G. Dupree, and Edward J. Schmahl **15**, 15 *Erratum 16*, 250
- Type III Solar Radio Burst Storms Observed at Low Frequencies. III: Streamer Density, Inhomogeneities, and Solar Wind Speed
Joseph Fainberg and R. G. Stone **17**, 392
- Gas-Magnetic Field Interactions in the Solar Corona
G. W. Pneuman and Roger A. Kopp **18**, 258
- Photometry of the Outer Solar Corona from Lunar-Based Observations
J. David Bohlin **18**, 450
- Solar Coronal Streamers Observed at 169 MHz with the Nançay East-West Radioheliograph
F. Axisa, Y. Avignon, M.-J. Martres, M. Pick, and P. Simon **19**, 110
- Rocket-Coronagraph Photometry of the 7 March, 1970 Corona from 3 to 8.5 R_{\odot}
J. D. Bohlin, M. J. Koomen, and R. Tousey **21**, 408
- Results of Polarization Observations of the Outer Corona from a Jet Aircraft
C. F. Keller **21**, 425
- Interferometric Studies of Spectral Lines in the Solar Corona
Joseph G. Hirschberg, Alain Wouters, and Lyman Hazelton, Jr. **21**, 448
- Étude hydrodynamique du grand jet coronal NE observé à l'éclipse du 7 Mars 1970
S. Koutchmy **24**, 373
- The Results of Coronal Investigation at the September 22, 1968 Solar Eclipse
Ts. S. Khetsuriani and E. I. Tetrushvili **25**, 343
- Particle Motions in Coronal Streamers and Type III Radio Bursts
Dean F. Smith and G. W. Pneuman **25**, 461
- Evolution of Coronal Helmets during the Ascending Phase of Solar Cycle 20
Shirley F. Hansen, Richard T. Hansen, and Charles J. Garcia **26**, 202
- Improved Three-Dimensional Mapping of the Electron Density Distribution of the Solar Corona
R. Michael Perry and Martin D. Altschuler **28**, 435
- The $\lambda 10747$ Coronal Line at the 1966 Eclipse. I: Emission Line Polarization
John A. Eddy, Robert H. Lee, and James P. Emerson **30**, 351
- Observation of a Possible Neutral Sheet in the Corona
John A. Eddy **30**, 385
- The Arch Systems, Cavities and Prominences in the Helmet Streamer Observed at the Solar Eclipse, November 12, 1966
Kuniji Saito and E. Tandberg-Hanssen **31**, 105
- The Structure of the Middle Corona from Observations at 80 and 160 MHz
G. A. Dulk and K. V. Sheridan **36**, 191
- A Model Combining the Polar and the Sector Structured Solar Magnetic Fields
Leif Svalgaard, John M. Wilcox, and Thomas L. Duvall **37**, 157
- Electrons in the Solar Corona. I: Electron Density Models of Streamers at Eclipse 15 February 1961
Audouin Dollfus, Marius Laffineur, and Zadig Mouradian **37**, 367
- A Model of Stationary, Isothermal Coronal Streamer
Wim J. Weber and Hans Rosenberg **37**, 409

- Observation of Sectorized Structure in the Outer Solar Corona: Correlation with Interplanetary Magnetic Field
R. A. Howard and M. J. Koomen 37, 469
- Numerical Calculation of Thomson Scattering from Inhomogeneous Models of the Corona, and Application to Streamers of the 1970 and 1972 Eclipses
J. D. Bohlin and L. M. Garrison 38, 165
- Observed Coronal Temperatures at $1.37 R_{\odot}$ in the Region of a Helmet Structure
D. H. Liebenberg, R. J. Bessey, and B. Watson 40, 387
- On Coronal Streamers with T-Type Neutral Points
B. R. Durney 41, 233
- Discussion on the Coronal Structure Related to Type III Bursts
M. Pick, M.-J. Martres, F. Axisa, and C. Mercier 42, 461
- Some Aspects of Coronal Streamer Dynamics
Wim J. Weber 53, 59
- Electrons in the Solar Corona. II: Coronal Streamers from K-Coronameter Measurements
Audouin Dollfus and Marie-Josèphe Martres 53, 449
- A Study of the Background Corona near Solar Minimum
Kuniji Saito, Arthur I. Poland, and Richard H. Munro 55, 121
- Coronal Mass-Ejections-Kinematics of the 19 December 1973 Event
E. Schmahl and E. Hildner 55, 473
- Large-Scale Three-Dimensional Structure of the Interplanetary Magnetic Field
N. P. Korzhov 55, 505
- Motions and Mass Changes of a Persistent Coronal Streamer
Arthur I. Poland 57, 141
- Electrons in the Solar Corona. III: Coronal Streamers Analysis from Balloon-Borne Coronagraph
A. Dollfus and Z. Mouradian 70, 3
- The Evolution of a Coronal Streamer and the Photospheric Magnetic Field
A. I. Poland and R. M. MacQueen 71, 361
- Over-Reflection of Hydromagnetic Planetary-Gravity Waves at the Solar Helmet Streamers and Magnetic Sectors
O. M. El Mekki 96, 397
- White-Light Coronal Transients Observed from Skylab May 1973 to February 1974: A Classification by Apparent Morphology
R. H. Munro and D. G. Sime 97, 191
- Coronal Transients (see Coronal Mass Ejections)**
- Cosmic Rays, Galactic**
- The Physical Significance of the Unusual Worldwide Fluctuations of Cosmic-Ray Intensity on July 14-15, 1961
H. S. Ahluwalia, M. Zubieta, and M. Schreier 4, 453
- Solar Activity and the 11-Year Modulation of Cosmic Rays
V. K. Balasubrahmanyam 7, 39
- Power Spectra of the Interplanetary Magnetic Field
James W. Sari and Norman F. Ness 8, 155 *Erratum 18, 176*
- Solar Activity, 27-Day Variation and Long Term Modulation of Cosmic Ray Intensity
V. K. Balasubrahmanyam and D. Venkatesan 11, 151
- Radial Gradients and Anisotropies of Cosmic Rays in the Interplanetary Medium
L. A. Fisk and W. I. Axford 12, 304
- Comments on 'Solar Activity, 27-Day Variation and Long-Term Modulation of Cosmic-Ray Intensity' by V. K. Balasubrahmanyam and D. Venkatesan
J. A. Lockwood 16, 488
- An Instrument to Measure Anisotropies of Cosmic Ray Electrons and Protons for the Explorer 34 Satellite
W. C. Bartley, K. G. McCracken, U. R. Rao, J. R. Harries, R. A. R. Palmeira, and F. R. Allum 17, 218
- Solar Effects on the Cosmic Ray Intensity Observed at 70 M.W.E. Underground
E. Antonucci, G. Cini Castagnoli, and M. A. Doderò 17, 491
- 27-Day Recurrence and Long Term Modulation of Cosmic Ray Intensity
V. K. Balasubrahmanyam and D. Venkatesan 20, 186
- Effects of Active Solar Regions on the Galactic Cosmic Ray Intensity
E. Antonucci, G. Cini Castagnoli, and M. A. Doderò 20, 497

Streaming of Galactic Cosmic Rays in the Interplanetary Magnetic Field

A. Hashim, M. Bercovitch, and J. F. Steljes 22, 220

Solar-Cycle Dependence of Galactic Cosmic Ray Flux. I: Coronal Indices

G. D. Parker 31, 259

Short and Long-Term Variations in the Cosmic Ray Intensity and Their Connection with the 5303 Å Coronal Line Intensity in Solar Cycle No. 20

N. Iucci, M. Parisi, and G. Villorresi 33, 505

Implications of the Reported Low Energy Electron Gradients

J. A. Lezniak and W. R. Webber 34, 477

Measurements of the Interplanetary Magnetic Field in Relation to the Modulation of Cosmic Rays

P. C. Hedgecock 42, 497

Solar-Cycle Dependence of Galactic Cosmic Ray Flux. II: The Correlation between the Nucleonic Flux and Solar Indices

G. D. Parker, R. L. Chasson, R. T. Hansen, and S. F. Hansen 48, 399

Solar-Cycle Evolution of the Coronal General Magnetic Field of 1959-1974 and the Synchronous Variation of High-Speed Solar Wind Streams and Galactic Cosmic Rays

Hirokazu Yoshimura 54, 229

The August 1972 Cosmic Ray Storm. North-South Anisotropies and Related Phenomena

A. Geranios 58, 201

Solar Flares and the Cosmic Ray Intensity

C. J. Hatton 66, 159

Particle Trapping and Acceleration during the August 1972 Event

X. Moussas 67, 163

Measurement of the Solar Diurnal Anisotropy of the Cosmic-Ray Albedo Neutron Flux

S. O. Ifedili 76, 393

A Study of the Modulating Effect of Solar Flares on the Cosmic Ray Intensity Using Time Series Analysis

G. A. Bowe and C. J. Hatton 80, 351

Cosmic Ray Intensity Variations and Two Types of High-Speed Solar Streams

D. Venkatesan, A. K. Shukla, and S. P. Agrawal 81, 375

Cosmic Rays, Solar

Riometer Observations in the Polar Caps of Solar Cosmic Ray Events during the IQSY

A. D. Goedeke, A. J. Masley, and G. W. Adams 1, 285

Stellar and Solar Flares

E. Schatzman 1, 411

Neutron Monitor Observations of High-Energy Solar Particles during the New Cycle

G. A. Baird, G. G. Bell, S. P. Duggal, and M. A. Pomerantz 2, 491

The Solar Particle Events of May 23 and May 28, 1967

S. T. Lindgren 5, 382

OSO-III: Preliminary Scientific Results

John C. Brandt 6, 171

Observations of Energetic X-Rays and Solar Cosmic Rays Associated with the 23 May 1967 Solar Flare Event

S. R. Kane and J. R. Winckler 6, 304

Anisotropies of Solar Cosmic Rays

L. A. Fisk and W. I. Axford 7, 486

Solar Protons $E > 100$ MeV Incident over Antarctica during January-February 1967

J. R. Barcus 8, 186

The Geomagnetic and Cosmic-Ray Storm of May 25/26, 1967

S.-I. Akasofu, P. D. Perreault, and S. Yoshida 8, 464

Solar Circumstances at the Time of the Cosmic Ray Increase on January 28, 1967

Helen W. Dodson and E. Ruth Hedeman 9, 278

Neutron Monitor and Pioneer 6 and 7 Studies of the January 28, 1967 Solar Flare Event

R. P. Bukata, P. T. Gronstal, R. A. R. Palmeira, K. G. McCracken, and U. R. Rao 10, 198

Radial Gradients and Anisotropies of Cosmic Rays in the Interplanetary Medium

L. A. Fisk and W. I. Axford 12, 304

Anisotropic Solar Cosmic Ray Propagation in an Inhomogeneous Medium, II

Leonard F. Burlaga 12, 317

- The Small Anisotropy and the Rigidity Spectrum of the March 30, 1969 Solar Flare Event
R. P. Bukata, P. T. Gronstal, and R. A. R. Palmeira 14, 419
- An Instrument to Measure Anisotropies of Cosmic Ray Electrons and Protons for the Explorer 34 Satellite
W. C. Bartley, K. G. McCracken, U. R. Rao, J. R. Harries, R. A. R. Palmeira, and F. R. Allum 17, 218
- The Degree of Anisotropy of Cosmic Ray Electrons of Solar Origin
F. R. Allum, R. A. R. Palmeira, U. R. Rao, K. G. McCracken, J. R. Harries, and I. Palmer 17, 241
- The Acceleration and Propagation of Solar Cosmic Rays as Deduced from the Relative Abundance of Protons to Helium Nuclei
Kunitomo Sakurai 17, 459
- The Effect of a Bounded Interplanetary Diffusion Medium on the Propagation of Solar Flare Cosmic Rays
Julius Feit 17, 473
- The Decay Phase of Solar Flare Events
K. G. McCracken, U. R. Rao, R. P. Bukata, and E. P. Keath 18, 100
- Cosmic Ray Modulation Produced by Radial Density Gradients in the Interplanetary Medium
L. R. Barnden 18, 165
- The Anomalous Distribution in Heliocentric Longitude of Solar Injected Cosmic Radiation
E. P. Keath, R. P. Bukata, K. G. McCracken, and U. R. Rao 18, 503
- Anisotropy Characteristics of Low Energy Cosmic Ray Population of Solar Origin
U. R. Rao, K. G. McCracken, F. R. Allum, R. A. R. Palmeira, W. C. Bartley, and I. Palmer 19, 209
- The Unusual Anisotropic Solar Particle Event of November 18, 1968
S. P. Duggal, I. Guidi, and M. A. Pomerantz 19, 234
- The Propagation of Solar Cosmic-Ray Bursts
C. K. Ng and L. J. Gleeson 20, 166
- The Release of Energetic Particles from the Sun
G. M. Simnett 20, 448
- Low-Energy Proton Increases Associated with Interplanetary Shock Waves
R. A. R. Palmeira, F. R. Allum, and U. R. Rao 21, 204
- Transport of Cosmic Rays in the Solar Corona
L. A. Fisk and K. H. Schatten 23, 204
- Observation of Solar Particle Fluxes over Extended Solar Longitudes
R. P. Bukata, U. R. Rao, K. G. McCracken, and E. P. Keath 26, 229
- Evidence for a Two-Component Injection of Cosmic Rays from the Solar Flare of 1969, March 30
I. D. Palmer and S. F. Smerd 26, 460
- Evidence for the Existence of Adiabatic Energy Loss in Interplanetary Space from Observations of the Decay of the February 25-March 2, 1969 Series of Solar Cosmic Ray Events
J. A. Lezniak and W. R. Webber 26, 474
- The Time-Latitude Distribution of Solar Flares Accompanied by Type IV Radio Bursts during the Period 1956 to 1969
Michael D. Papagiannis, Christos S. Zerefos, and Christos C. Repapis 27, 208
- Sectorial Anisotropy of Solar Cosmic Rays
S. P. Duggal and M. A. Pomerantz 27, 227
- Direct Observations of Low-Energy Solar Electrons Associated with a Type III Solar Radio Burst
L. A. Frank and D. A. Gurnett 27, 446
- The Continuous Emission of Low Energy Cosmic Rays during Solar Flares
Julius Feit 29, 211
- Energy Losses of Solar Cosmic Rays in Interplanetary Space
I. D. Palmer 30, 235
- Evidence for Confinement of Low-Energy Cosmic Rays Ahead of Interplanetary Shock Waves
R. A. R. Palmeira and F. R. Allum 30, 243
- Variations of the Relative Abundances of He, (C, N, O) and Fe-Group Nuclei in Solar Cosmic Rays and Their Relationship to Solar Particle Acceleration
D. L. Bertsch, S. Biswas, C. E. Fichtel, C. J. Pellerin, and D. V. Reames 31, 247
- Reply to 'Shock Wave Effects in Solar Cosmic Ray Events' by I. D. Palmer
S. W. Kahler 33, 239
- Short and Long-Term Variations in the Cosmic Ray Intensity and Their Connection with the 5303 Å Coronal Line Intensity in Solar Cycle No. 20
N. Iucci, M. Parisi, and G. Villaresi 33, 505

- Cosmic Ray Anisotropies Observed Late in the Decay Phase of Solar Flare Events
F. R. Allum, R. A. R. Palmeira, K. G. McCracken, U. R. Rao, D. H. Fairfield, and L. J. Gleeson **38**, 227
- Solar Cosmic Ray Composition above 10 MeV/Nucleon and Its Energy Dependence in the 4 August 1972 Event
D. L. Bertsch, S. Biswas, and D. V. Reames **39**, 479
- Monte Carlo Model of the Highly Anisotropic Solar Proton Event of 20 April 1971
I. D. Palmer, R. A. R. Palmeira, and F. R. Allum **40**, 449
- The Variation of Solar Proton Energy Spectra and Size Distribution with Heliolongitude
M. A. I. van Hollebeke, L. S. Ma Sung, and F. B. McDonald **41**, 189
- Heavy Solar Cosmic Rays in the January 25, 1971 Solar Flare
Charles J. Pellerin, Jr. **41**, 449
- Propagation of Solar-Flare Cosmic Rays along Corotating Interplanetary Flux-Tubes
C. K. Ng and L. J. Gleeson **43**, 475
- Simulation of Solar Flare Particle Interaction with Interplanetary Shock Waves
M. Scholer and G. Morfill **45**, 227
- A Complete Model of the Propagation of Solar-Flare Cosmic Rays
C. K. Ng and L. J. Gleeson **46**, 347
- Cooperation with the SCOSTEP Project: Study of Travelling Interplanetary Phenomena (STIP)
M. Dryer and M. A. Shea **47**, 413
- Influence of Finite Injections and of Interplanetary Propagation on Time-Intensity and Time-Anisotropy Profiles of Solar Cosmic Rays
B. M. Schulze, A. K. Richter, and G. Wibberenz **54**, 207
- Solar Particle Propagation from 1 to 5 AU
R. D. Zwickl and W. R. Webber **54**, 457
- The August 1972 Cosmic Ray Storm. North-South Anisotropies and Related Phenomena
A. Geranios **58**, 201
- Motion of Solar Cosmic Rays in the Coronal Magnetic Field
D. J. Mullan and K. H. Schatten **62**, 153
- Energetic Solar Particle Events in a Stream-Structured Solar Wind
M. Scholer, G. Morfill, and A. K. Richter **64**, 391
- Particle Trapping and Acceleration during the August 1972 Event
X. Moussas **67**, 163
- Energy and Nuclear Charge Dependence of Abundance Enhancements of Solar Cosmic Ray Heavy Ions in Three Large Solar Events
S. Biswas, N. Durgaprasad, and M. N. Vahia **89**, 163
- The GLE-Associated Flare of 21 August, 1979
E. W. Cliver, S. W. Kahler, H. V. Cane, M. J. Koomen, D. J. Michels, R. A. Howard, and N. R. Sheeley, Jr. **89**, 181

Current Sheets (*see Electric Currents and Current Sheets*)

Earth's Atmosphere

- Determination of the Solar X-Ray Spectrum by Using the Atmospheric Extinction
M. Landini **2**, 106
- On the Influence of Seeing on Photospheric Velocity Measurements
Franz Ludwig Deubner **3**, 439
- Solar Extreme Ultraviolet Emissions in the Range 260-1300 Å Observed from OSO-III
H. E. Hinteregger and L. A. Hall **6**, 175
- Studies Related to Satellite Thermal Control: Measurements of Earth-Reflected Sunlight and Stability of Thermal-Control Coatings
Carr B. Neel, Roy N. Griffin, and John P. Millard **6**, 235
- A Quantitative Treatment of Solar 'Seeing', I
C. E. Coulman **7**, 122
- Solar Photography in the Extreme Ultraviolet
W. M. Burton **8**, 53

- On Astronomical Seeing: The Single Schlieren Model
Ulrich Grossmann-Doerth 9, 210
- Measurement of Solar Image Motion and Blurring
P. N. Brandt 13, 243
- Description of an Observational Method for Determining Absolute Intensities in the Solar Spectrum between λ 2962 Å and λ 4087 Å
J. Houtgast 15, 273
- Sunspot Observations during the 9 May 1970 Mercury Transit
P. Maltby and L. Staveland 18, 443
- Test of a Solar Streamline Analysis on Terrestrial Wind Data
Hans J. E. Fischer 20, 26
- On the Elimination of Seeing Effects from Solar Intensity Measurements
A. Wittmann 21, 237
- On the Size Distribution of Turbulent Elements in the Earth's Atmosphere
A. Greve 24, 243
- Modulation Transfer Function for Solar Telescopes and Atmospheric Turbulence
Alberto Righini 25, 242
- On Emission Lines of Hydrogen, Helium and Ionized Calcium Seen on a Coronal Spectrogram of the March 7, 1970 Eclipse
M. K. V. Bappu, J. C. Bhattacharyya, and K. R. Sivaraman 26, 366
- A Remark on Turbulence and 'Production' Limited Telescopes
A. Greve 29, 263
- Selective Diffraction with Possible Application to Solar Research
Yngve Öhman 34, 253
- A Quantitative Treatment of Solar 'Seeing'. II: Microthermal Measurements in the Immediate Vicinity of Telescopes
C. E. Coulman 34, 491
- Automatic Solar Image Motion Measurements
Stirling A. Colgate and Elliott P. Moore 41, 487
- Proceedings of the Workshop: The Solar Constant and the Earth's Atmosphere, held at Big Bear Solar Observatory, North Shore Drive, Big Bear City, California, 92314, 19-21 May 1975
H. Zirin, R. L. Moore, and J. Walter (eds.) 46, 377
- Zenith Photoelectric Measurements during the Annular Solar Eclipse of April 29, 1976
Th. Prokakis and D. Dialetis 53, 531
- A Study of the Degradation of Daytime Astronomical Images Due to Turbulence in the Lower Atmosphere by Measurement of the Standard Deviation of the Angle of Arrival
J. Borgnino, J. Vermin, C. Aime, and G. Ricort 64, 403
- Determination of Fried's Parameter r_0 Prediction for the Observed r.m.s. Contrast in Solar Granulation
G. Ricort, C. Aime, C. Roddier, and J. Borgnino 69, 223
- Solar Rotation Measurements at Mount Wilson. II: Systematic Instrumental Effects and the Absolute Rotation Rate
Barry J. LaBonte and Robert Howard 73, 3
- Structure of the 5-Minute Solar Oscillations 1976-1980
A. Claverie, G. R. Isaak, C. P. McLeod, H. B. van der Raay, and T. Roca Cortès 74, 51
- Effects of Solar Variations on the Upper Atmosphere
G. Kockarts 74, 295
- The Response of Ozone to Solar Activity Variations: A Review
Gerald M. Keating 74, 321
- Chemical Response of the Middle Atmosphere to Solar Variations
P. de Baets, G. Brasseur, and P. C. Simon 74, 349
- Increase in the Response of the Earth's Atmosphere to the Sunspot Cycle with Height above Sea Level
H. Schwentek and W. Elling 74, 355
- Similar Periodicities in the Range 12 to 150 Days in Solar, Ionospheric and Atmospheric Time Series
W. Elling and H. Schwentek 74, 373
- The Sun's Rotation and Perturbations of Geopotential Height and Temperature Fields in the Stratosphere
A. Ebel and B. Schwister 74, 385

- A Dynamical Mechanism through Which Variations in Solar Ultraviolet Radiation Can Influence Tropospheric Climate
J. R. Bates **74**, 399
- Tropospheric Effects of Variable Solar Activity
C. J. E. Schuurmans **74**, 417
- On the Nature of the Apparent Response of the Vorticity Area Index to the Solar Magnetic Field
J. M. Wilcox and P. H. Scherrer **74**, 421
- Climate and Paleoclimate: What We Can Learn about Solar Luminosity Variations
T. M. L. Wigley **74**, 435
- Solar Variability and Stochastic Effects on Climate
C. Nicolis **74**, 473
- A 1600 Year Long Record of Solar Change Derived from Atmospheric ^{14}C Levels
Minze Stuiver and Paul D. Quay **74**, 479
- A Comparison between Estimations of Fried's Parameter r_0 Simultaneously Obtained by Measurements of Solar Granulation Contrast and of the Variance of Angle-of-Arrival Fluctuations
G. Ricort, J. Borgnino, and C. Aime **75**, 377
- Influence of Solar Wind Variability on the Recurrence of Droughts
P. Venkatakrishnan **81**, 193
- Detection of Individual Normal Modes of Oscillation of the Sun in the Period Range from 2 hr to 10 min in Solar Diameter Studies
Randall J. Bos and Henry A. Hill **82**, 89
- On the Origin of Oscillations in a Solar Diameter Observed through the Earth's Atmosphere: A Terrestrial Atmospheric or a Solar Phenomenon
Henry A. Hill, Randall J. Bos, and Thomas P. Caudell **82**, 129
- Atmospheric Internal Gravity Waves as a Source of Quasiperiodic Variations of the Cosmic Ray Secondary Component and Their Likely Solar Origin (*Invited Review*)
A. M. Galper, V. G. Kirillov-Ugryumov, N. G. Leikov, and B. I. Luchkov **82**, 447
- A Beam Ratio Technique for Microwave Observation of S-Component Sources
K. F. Tapping **83**, 179
- On the Instrumental and Atmospheric Stray-Light for Solar Observations
W. Mattig **87**, 187
- The Solar Constant and Climate
K. Ya. Kondratyev and G. A. Nikolsky **89**, 215
- Dependence of Stratospheric Temperature on the 11-Year Solar Activity Cycle
H. Schwentek and W. Elling **91**, 181
- The Effect of Spatial Smearing on Solar Doppler Measurements. I: Mathematical Formulation and Application to Measurements of Solar Rotation
F. Albrechtsen and B. N. Andersen **95**, 239
- Straylight Correction to Doppler Rotation Measurements
B. N. Andersen **98**, 173
- On the Accuracy of Line-of-Sight Velocity Measurements Using Telluric Lines as Reference Lines
N. I. Kobanov **99**, 21
- Eclipses**
- On the Dome Formation in the Corona around a Prominence Observed at the Total Eclipse of 15 February 1961
Ichiro Kawaguchi **1**, 420
- Occultation of a Noise Storm Source during the Partial Solar Eclipse of May 20, 1966
V. Letfus, A. Tlamicha, and B. Valníček **1**, 474
- Observational Studies of the Solar Intensity Profile in the Far Infrared and Millimeter Regions
R. W. Noyes, J. M. Beckers, and F. J. Low **3**, 36
- Coronal Polar Plumes
Gordon Newkirk, Jr. and John Harvey **3**, 321
- Emission Gradients in the Continuum at the Sun's Limb
Eijiro Hiei and James E. Faller **3**, 513
- Some Characteristics of an S-Component of Solar Radiation Identified on November 1966 Eclipse at 4.28-cm Wavelength
Pierre Kaufmann **4**, 58

- Photoelectric Measurements of the Green Coronal Line during the Eclipse of November 12, 1966
J. McKim Malville and Edward J. Schmahl **4**, 224
- A Concentric Ellipse Multiple-Arch System in the Solar Corona
Kuniji Saito and Charles L. Hyder **5**, 61
- Magnetic-Field Structure Associated with Coronal Streamers
P. A. Sturrock and Sheldon M. Smith **5**, 87
- 16-40 Å Coronal X-Ray Emission during the 12 November 1966 Eclipse
H. V. Argo, J. A. Bergey, W. D. Evans, and S. Singer **5**, 551
- Identification of a Solar X-Ray Source Using D Layer Ionization Behavior during an Eclipse
David D. Meisel **5**, 575
- Solar Limb Brightening and Enhancement Measurements at 1.2 mm
R. A. Newstead **6**, 56
- Radio Observation of the Solar Eclipse of May 20, 1966
F. G. Drago and G. G. Noci **7**, 276
- Le Rayonnement X du soleil lors de l'éclipse du 20 Mai 1966
G. Simon **7**, 295
- Further Investigations of Solar X-Ray Sources Using D-Layer Ionization Behavior during Eclipses
David D. Meisel **8**, 477
- On the Chromospheric Observations at the 1962 Eclipse
William Henze, Jr. **9**, 56
- Interferometric Investigation of the Red and Green Lines during the Total Eclipse of May 30, 1965
A. B. Delone and E. A. Makarova **9**, 116
- Preliminary Report on Photographing the Solar Corona in 5303 Å with a Polaroid and a Fabry-Pérot Interferometer during the Total Eclipse of September 22, 1968
A. Delone and E. Makarova **9**, 446
- Identification of Two Solar X-Ray Sources at the 22 September 1968 Total Eclipse
David D. Meisel **9**, 487
- Coronal Polarization and Intensity at the November 12, 1966 Solar Eclipse
Warren N. Arnquist, Donald H. Menzel, and Fernando de Romaña **11**, 82 *Erratum 12*, 510
- Comments on a Paper by D. Meisel Entitled 'Identification of Solar X-Ray Source Using D-Layer Ionization Behavior during an Eclipse'
A. C. Aikin and J. H. Underwood **11**, 334
- Reply to Aikin and Underwood
David D. Meisel **11**, 338
- Coronagraph Observations of the Coronal Condensation of 4 February 1962
H. Zirin **11**, 497
- The solar corona photographed in tangentially and radially polarized light during the eclipse of 7 March 1970.
S. Koutchmy and M. Laffineur, Institut d'Astrophysique de Paris, C.N.R.S. **13**, 250
- Radio Spectrum of Two Active Regions. (Results of the Total Solar Eclipse of Nov. 12, 1966)
Franca Chiuderi Drago **13**, 357
- A Search for the K-Line of Ca II during the Eclipse of 7 March 1970
Charles D. Evans **14**, 157
- Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona
Gordon Newkirk, Jr., Robert G. Dupree, and Edward J. Schmahl **15**, 15 *Erratum 16*, 250
- A Comparison of Computed and Observed Line Profiles and Flash Intensities in the Photosphere-Chromosphere Transition Region
E. L. J. van Dessel **15**, 322
- Mauna Loa Coronagraph Observations around the 7 March 1970 Eclipse
Richard T. Hansen, Shirley F. Hansen, and Charles J. Garcia **15**, 387
- The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965
John T. Jefferies, Frank Q. Orrall, and J. B. Zirker **16**, 103
- Eclipse Measurements near 1.2 cm Wavelength on September 11, 1969
Mohamed El-Raey **16**, 404
- Spectral Analysis of Four Quiescent Prominences Observed at the Peruvian Eclipse
Tadashi Hirayama **17**, 50
- Spectropolarimetric Analysis of the Solar Corona during the 12 November, 1966 Total Eclipse
B. Caccin, G. Moschi, M. Rigutti, and R. Falciani **17**, 89

- Observations and Discussions Concerning 'High' Polarization Features in the Solar Corona
Serge Koutchmy and Kenneth H. Schatten **17**, 117
- The Intensity Distribution of the D₃ Helium Line near the Solar Limb
R. A. Gulyaev **18**, 410
- The Abundance of Helium in Prominences and in the Chromosphere
Tadashi Hirayama **19**, 384
- L α Measurements during the Solar Eclipse of 12 November 1966
L. H. Weeks and L. G. Smith **20**, 59
- Radio Observations of Filaments during the Eclipses of September 11, 1969 and March 7, 1970
M. Simon and Bengt-Arne Wickström **20**, 122
- Observations of a Partial Solar Eclipse at 9 mm Wavelength
A. M. Flett, Patricia R. Foster, P. Strachan, and D. C. Thornton **20**, 317
- A Method for the Evaluation of the Brightness Distribution in the Solar Corona
W. Stanek **21**, 121
- The Use of Solar Eclipse Timings to Compare the Reference Systems of Newcomb's Tables of the Sun and of the Improved Lunar Ephemeris
R. L. Duncombe, R. F. Haupt, and J. S. Duncombe **21**, 260
- The Coronal and Interplanetary Magnetic Fields at the Time of the Solar Eclipse of 7 March, 1970
J. O. Stenflo **21**, 263
- Coronal Electron Density Maps for 7 March, 1970, Derived from Mg X λ 625 Spectroheliograms
G. L. Withbroe, A. K. Dupree, L. Goldberg, M. C. E. Huber, R. W. Noyes, W. H. Parkinson, and E. M. Reeves **21**, 272
- Spectral Lines from Photosphere to Chromosphere, Observed during the March 1970 Eclipse: A First Comparison with Theory
J. Houtgast, O. Namba, R. J. Rutten, and J. W. Wijnenga **21**, 281
- Observations of the 7 March, 1970 Total Solar Eclipse at Wavelengths of 3.2 and 8.3 mm
John P. Hagen, Paul N. Swanson, Robert W. Haas, Fred L. Wefer, and Raymond W. Vogt **21**, 286
- High Resolution Observations of the Chromosphere at mm and cm Wavelengths
M. Simon **21**, 297
- Fine Structure in the Inner Corona Observed at the 1970 Eclipse
T. Tsubaki, H. Kurokawa, and M. Kanno **21**, 305
- On the Coronal Lines in the Chromosphere at the 1970 Eclipse
M. Kanno, T. Tsubaki, and H. Kurokawa **21**, 314
- The Physical Conditions in Inner Corona Derived from Spectral Data of the Solar Eclipse on 7 March, 1970
E. A. Gurtovenko and K. V. Alikayeva **21**, 325
- Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico
G. M. Nikolsky, R. A. Gulyaev, and K. I. Nikolskaya **21**, 332
- Observations of the Infrared Fe XIII Lines in the Solar Corona of 12 November, 1966
Paul L. Byard and Kenneth E. Kissell **21**, 351
- Some Newly Discovered Coronal Emission Lines from High Altitude Infrared Observations of the 7 March, 1970, Solar Eclipse
Kenneth H. Olsen, Charles R. Anderson, and John N. Stewart **21**, 360
- Eclipse Observations in the Rocket Ultraviolet
T. L. J. Jones, W. H. Parkinson, R. J. Speer, and C. Yang **21**, 372
- The Identification of New Forbidden Coronal Lines in the Solar EUV Spectrum
Carole Jordan **21**, 381
- Measurements on the Lyman Alpha Corona
A. H. Gabriel **21**, 392
- The Relation between the White Light and XUV Coronas on 7 March, 1970
R. Tousey and M. J. Koomen **21**, 401
- Rocket-Coronagraph Photometry of the 7 March, 1970 Corona from 3 to 8.5 R_s
J. D. Bohlin, M. J. Koomen, and R. Tousey **21**, 408
- A Polarization-Color Effect in the K-Corona
Donald E. Billings and Young Oh **21**, 418
- Results of Polarization Observations of the Outer Corona from a Jet Aircraft
C. F. Keller **21**, 425

- Photometric Intensity and Polarization Measurements of the Solar Corona
David S. McDougal **21**, 430
- The Polarization of Coronal Emission Lines
J. M. Beckers and W. J. Wagner **21**, 439
- Interferometric Studies of Spectral Lines in the Solar Corona
Joseph G. Hirschberg, Alain Wouters, and Lyman Hazelton, Jr. **21**, 448
- Localization of the Source of Flare X-Ray Emission during the Eclipse of 7 March, 1970
R. W. Kreplin and R. G. Taylor **21**, 452
- Eclipse of Radio Emission on 7 March, 1970 at 10 cm Wavelength from the Active Region Associated with McMath Plage 10618
Earle B. Mayfield, Gary A. Chapman, and Ronald M. Straka **21**, 460
- Spectral Radio Observations of a Solar Eclipse
R. M. Straka **21**, 469
- Correlation of Photospheric Magnetic Field Strength with Coronal Brightness on 7 March, 1970
G. C. J. Suffolk and S. M. Smith **21**, 481
- Photography of the Eclipse of 7 March, 1970 from Two Locations
S. A. Korff and R. B. Mendell **21**, 482
- XUV Image of the Sun from Eclipse Observations of the Ionospheric E-Region
R. T. Marriott, D. E. St. John, R. M. Thorne, and S. V. Venkateswaran **21**, 483
- Comet Searches during Four Major Eclipses
Henry C. Courten **21**, 495
- Contents of the Solar Eclipse Issue of *Journal of Atmospheric Terrestrial Physics*, Vol. 34, No. 4, April, 1972
21, 496
- The Interpretation of Total Line Intensities from Optically Thin Gases. III: Application to Coronal Forbidden Line Spectra
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker **22**, 327
- The Chromosphere in Continuum Emission Observed at the Total Solar Eclipse on 7 March 1970
Mitsugu Makita **24**, 59
- Raies nouvelles observées lors de l'éclipse du 7 Mars 1970
Z. Mouradian **24**, 368
- Étude hydrodynamique du grand jet coronal NE observé à l'éclipse du 7 Mars 1970
S. Koutchmy **24**, 373
- The Results of Coronal Investigation at the September 22, 1968 Solar Eclipse
Ts. S. Khetsuriani and E. I. Tetrushvili **25**, 343
- On Emission Lines of Hydrogen, Helium and Ionized Calcium Seen on a Coronal Spectrogram of the March 7, 1970 Eclipse
M. K. V. Bappu, J. C. Bhattacharyya, and K. R. Sivaraman **26**, 366
- Threadlike Coronal Streamers
M. Waldmeier **27**, 143
- Further Evidence for a Complex Limb Structure in the Solar Radial Brightness Distribution at mm Wavelengths
Paul N. Swanson, Fred L. Wefer, William J. Decker, and John P. Hagen **28**, 419
- Observations of the Inner F and K Coronas below $\lambda 2220$
Frank Q. Orrall and R. J. Speer **29**, 41
- Extreme Ultraviolet Emission from Chromospheric Inhomogeneities. An Analysis of the Extreme Ultraviolet Flash Spectrum of the Sun
G. E. Brueckner and K. R. Nicolas **29**, 301
- The $\lambda 10747$ Coronal Line at the 1966 Eclipse. I: Emission Line Polarization
John A. Eddy, Robert H. Lee, and James P. Emerson **30**, 351
- Observation of a Possible Neutral Sheet in the Corona
John A. Eddy **30**, 385
- The Visible Spectrum of the Lower Corona during the Total Eclipse of May 30, 1965
F. Magnant-Crifo **31**, 91
- The Arch Systems, Cavities and Prominences in the Helmet Streamer Observed at the Solar Eclipse, November 12, 1966
Kuniji Saito and E. Tandberg-Hanssen **31**, 105

- The total solar eclipse of 30 June 1973, photographed at Loiyengalani, Kenya, by a research team from the High Altitude Observatory of the National Center for Atmospheric Research.
G. Newkirk, Jr. **32**, 2
- The Radio Radius of the Sun at Millimeter and Centimeter Wavelengths
Paul N. Swanson **32**, 77
- Microwave Observations of the 4 January, 1973 Solar Eclipse
P. Kaufmann, E. Scalise, Jr., P. Marques dos Santos, R. E. Schaal, and R. A. A. Fortunato **33**, 69
- On the Polarization of the Solar Coronal Emission Lines
E. Mogilevsky, B. Ioshpa, and V. Obridko **33**, 169
- Flash spectrum at the west limb. Photographed at 2.9 s before third contact, 30 June, 1973.
M. Kanno, Kwasan and Hida Observatories, University of Kyoto **33**, 264
- Line-Intensities in the Photosphere-Chromosphere Transition Region. II: Observational Material from the 1961 Eclipse at Brač
E. L. van Dessel, J. Houtgast, and D. Koelbloed **33**, 375
- Photométrie photographique de la couronne solaire. Observée au cours de l'éclipse totale du 10 juillet 1972
S. Koutchmy, N. I. Dzubenko, A. T. Nesmjanovich, and S. K. Vekshvatsky **35**, 369
- Curvature and Surface Distribution of the Polar Rays in the Solar Corona on 12 November 1966
J. G. Kirk and J. S. Newby **35**, 377
- Partial solar eclipse of the Sun, 1972 June 10, photographed in $H\alpha$ light.
Big Bear Solar Observatory **36**, 2
- The Continuum of the Extreme Limb and the Chromosphere at the 1970 Eclipse
H. Kurokawa, K. Nakayama, T. Tsubaki, and M. Kanno **36**, 69
- Observations Coronographiques avant et après les éclipses du 10 Juillet 1972 et du 30 Juin 1973
P. Poulain **36**, 339
- The Fe XIV Brightness Measurements: 30 June 1973
Richard R. Fisher **36**, 343
- Electrons in the Solar Corona. I: Electron Density Models of Streamers at Eclipse 15 February 1961
Audouin Dollfus, Marius Laffineur, and Zadig Mouradian **37**, 367
- Brightness Distribution at $\lambda = 3$ and 21 cm near the Solar North Pole
Franca Chiuderi Drago and Patrizio Patriarchi **37**, 403
- Numerical Calculation of Thomson Scattering from Inhomogeneous Models of the Corona, and Application to Streamers of the 1970 and 1972 Eclipses
J. D. Bohlin and L. M. Garrison **38**, 165
- Line Intensities in the Photosphere-Chromosphere Transition Region. III: Empirical NLTE Analysis of Fe I Lines
E. L. van Dessel **38**, 351
- Absolute Abundances and Distribution of Material versus Density and Temperature in a Coronal Condensation
Françoise Magnant-Crifo **39**, 141
- The Coronal Hole at the 7 March 1970 Solar Eclipse
M. Waldmeier **40**, 351
- 3.3 Millimeter Limb Brightening Measurements during the 30 June 1973 Total Solar Eclipse
F. I. Shimabukuro, W. J. Wilson, T. T. Mori, and P. L. Smith **40**, 359
- Étude de l'éclipse solaire partielle de 25 Février, 1971 au Pic du Midi
J. P. Rozelot et G. Ratier **40**, 371
- Observed Coronal Temperatures at $1.37 R_{\odot}$ in the Region of a Helmet Structure
D. H. Liebenberg, R. J. Bessey, and B. Watson **40**, 387
- On a Cold Emission in the Solar Corona
K. V. Alikayeva **41**, 89
- Emission of Helium in Prominences and the Chromosphere
N. N. Morozhenko **42**, 71
- Sunspot and Stray Light Observations during the 1971, February 25 Partial Solar Eclipse
J. Köppen **42**, 325
- Precise Determination of the Orientation of the Plane of Polarization in the Solar Corona
A. K. Kishonkov and M. M. Molodensky **42**, 341
- The Radial Brightness Distribution of the Sun at 3.2 mm as Determined from the June 30, 1973 Total Solar Eclipse and a Reanalysis of the March 7, 1970 Total Solar Eclipse
Paul N. Swanson and John P. Hagen **43**, 57

- Investigation of Emission Lines of the Solar Corona of 10 July, 1972 Using the Fabry-Pérot Etalon
I. S. Kim and G. M. Nikolsky **43**, 351
- On the Reliability of the Structure of the Low Corona as Derived from Flash Spectra
Ronald Giovanelli **43**, 377
- Comments on the Paper 'On the Reliability of the Structure of the Low Corona as Derived from Flash Spectra'
by R. Giovanelli
Mitsuo Kanno **43**, 381
- The Coronal Condensation Observed at the 1973 Eclipse
Hiroki Kurokawa **43**, 385
- Line Intensities in the Photosphere-Chromosphere Transition Region. IV: Cr I and Metallic Ion Lines
E. L. van Dessel **44**, 13
- The Brightness of the Helium D₃ Line in the Undisturbed Chromosphere from Eclipse Observations
R. A. Gulyaev **44**, 25
- Coronal Emission Line Profile Observations at Total Solar Eclipses. I: Airborne Instrumentation and Results
D. H. Liebenberg **44**, 331
- Coronal Emission Line Profile Observations at Total Solar Eclipses. II: 30 May 1965 Results, Deconvolution and Interpretation
D. H. Liebenberg, R. J. Bessey, and B. Watson **44**, 345
- The Excitation of the Coronal Line 5303 Å
M. Waldmeier **45**, 147
- Interferometric Investigation of the Line of Sight Velocities in $\lambda 5303$ during the Eclipse of 11 September, 1968
A. B. Delone and E. A. Makarova **45**, 157 *Corrigendum 45,550*
- H and K (Ca II) Emissions as Observed in Coronal Spectrum in the July 20, 1963 Solar Eclipse
F. Cavallini and A. Righini **45**, 291
- Studies of the Prominence-Corona Transition Zone from Rocket Ultraviolet Spectra of the March 1970 Eclipse
C. Y. Yang, R. W. Nicholls, and F. J. Morgan **45**, 351
- Photometric Study of Chromospheric and Coronal Spikes Observed during the Total Solar Eclipse of 30 June, 1973
S. Koutchmy and G. Stellmacher **49**, 253
- Helium Emission in the Middle Chromosphere
M. A. Livshits, L. A. Akimov, I. L. Belkina, and N. P. Dyatel **49**, 315
- Evidence for Temporal Variations of Coronal Emission Line Intensity and Profile
D. H. Liebenberg, R. J. Bessey, and B. Watson **50**, 109
- Observations of Coronal Polarization at the Solar Eclipse of 7 March, 1970
J. Dürst **50**, 457
- Extreme Limb Observations of Ba II $\lambda 4554$ and Mg I $\lambda 4571$
Robert J. Rutten **51**, 3
- Study of the June 30, 1973 Trans-Polar Coronal Hole
Serge Koutchmy **51**, 399
- The Polarization of the Inner Solar Corona at the Eclipse of 10 July 1972
G. M. Nikolsky, A. A. Sazanov, and A. K. Kishonkov **53**, 79
- Zenith Photoelectric Measurements during the Annular Solar Eclipse of April 29, 1976
Th. Prokakis and D. Dialetis **53**, 531
- Solar Brightness Distribution at 3 nm Wavelength from Observations of the Eclipse of 1976 October 23
N. R. Labrum, J. W. Archer, and C. J. Smith **59**, 331
- Studies of Granular Velocities. VIII: The Height Dependence of the Vertical Granular Velocity Component
C. J. Durrant, W. Mattig, A. Nesis, G. Reiss, and W. Schmidt **61**, 251
- On the Variation of the Direct Solar Radiation during the Annular Solar Eclipse of April 29, 1976
J. Deliyannis, D. Papathanasoglou, and M. Stathopoulou-Tsoga **62**, 401
- Plane Grating as Polar Heliostat in Eclipse Observations of the Chromosphere and Prominences with Special Application to Studies of Doppler-Widened Thomson-Scattered Fraunhofer Lines
Yngve Öhman **62**, 407
- The Colour of the Solar Corona and Dust Grains in It
A. K. Ajmanov and G. M. Nikolsky **65**, 171

- Spectroheliogram in $H\alpha$ (bandpass = 60 mÅ, $\Delta\lambda = -0.5 \text{ \AA}$) obtained with the 28 cm vacuum telescope of the San Fernando Observatory during the solar eclipse of 12 October 1977 near the time of maximum obscuration at approximately 20:30 UT.
G. A. Chapman **66**, 2
- Ancient Chinese Observations of Physical Phenomena Attending Solar Eclipses
P. K. Wang and G. L. Siscoe **66**, 187
- The total solar eclipse of 16 February 1980, photographed at Palem, India, by a research team from the High Altitude Observatory of the National Center for Atmospheric Research, Boulder, Colorado, and Southwestern at Memphis College, Memphis, Tennessee.
High Altitude Observatory and Southwestern at Memphis **68**, 216
- The solar corona of February 16, 1980 solar eclipse. Green emission corona and white light picture were taken at Jawal Gera, India, with 130/1950 millimeter telescope.
J. Sýkora and V. Rušin, Skalnaté Pleso and Lomnický Štít Observatories, Czechoslovakia **73**, 2
Erratum **76**, 399
- The red line corona at the total solar eclipse on February 16, 1980, photographed at the San Marco Project, Ngomeni, Kenya, by the Kwasan and Hida Observatories' Expedition (S. Saito, H. Kurokawa, and Y. Ogimachi), University of Kyoto, Japan.
S. Saito **73**, 216
- Airborne Total Eclipse Observations of the Extreme Solar Limb at 400 μm
T. Alan Clark and Rita T. Boreiko **76**, 117 *Addendum* **83**, 187
- On the Width Distribution of Penumbral Filaments in Sunspots
J. A. Bonet, J. D. Ponz, and M. Vazquez **77**, 69
- The solar corona photographed in white light at the eclipse of February 16, 1980 at Yellapur (India).
J. Dürst, Inst. für Astronomie, ETH, 8092 Zürich, Switzerland and S. Koutchmy, Inst. d'Astrophysique, CNRS, 75014 Paris, France **78**, 2
- Solar Limb Brightening at the Extreme Limb from Photoelectric Eclipse Observations
Warren A. Rosen and Howard L. Poss **78**, 17
- Light Deflection during Solar Eclipses
J. Bouet **78**, 385
- Study of the Brightness Distribution across Spicules from Observations of the Spicule Occultation by the Moon at the Partial Solar Eclipse
G. K. Ajmanova, A. K. Ajmanov, and R. A. Gulyaev **79**, 323
- An Observation of Prominence Condensation out of a Coronal Void
W. J. Wagner, G. Newkirk, Jr., and H. U. Schmidt **83**, 115
- The Solar Corona on 31 July, 1981
R. R. Fisher, L. B. Lacey, K. A. Rock, E. A. Yasakawa, N. R. Sheeley, Jr., D. J. Michels, R. A. Howard, M. J. Koomen, and A. Bagrov **83**, 233
- Broad-Band, High-Resolution Photograph of the Solar Corona February 16, 1980
K. K. Scaria **85**, 235
- The solar corona taken by M. Waldmeier at the total eclipse of July 13, 1981. Bratsk (USSR).
M. Waldmeier **87**, 205
- Line Width Observation of He II 4686 Å and He I 4713 Å in the Chromosphere
Tadashi Hirayama and Makoto Irie **90**, 291
- High-Frequency Coronal Oscillations and Coronal Heating
Jay M. Pasachoff and Donald A. Landman **90**, 325
- The Coronal Disturbance ($W90^\circ$, $N25^\circ$) in the Eclipse Spectra of July 31, 1981
K. I. Nikolskaya and V. G. Utrobin **91**, 141
- On the Sun's Limb Brightening in the Visible
G. H. Elste **93**, 15
- Structure of the Inner Corona Derived from Observations of the Eclipse of 16 February 1980
O. G. Badalyan, M. A. Livshits, and J. Sýkora **93**, 143
- Coronal Temperature Measurements near a Helmet Structure Base at the 1973 Solar Eclipse
R. J. Bessey and D. H. Liebenberg **94**, 239
- Clues to the Mode of Excitation of Fe X Ions in the Solar Corona from the 1980 Eclipse Observations
Jagdev Singh **95**, 253

- Observations of the Solar Corona in Polarized White Light during the Total Solar Eclipse of February 16, 1980:
 Preliminary Results
 F. Clette, P. Cugnon, and A. Koeckelenbergh 98, 163

Editorials

Editorial

- C. de Jager and Z. Švestka 1, 3

Editorial

- C. de Jager and Z. Švestka 1, 303

Editorial

- C. de Jager and Z. Švestka 3, 3

Editorial

- C. de Jager and Z. Švestka 5, 259

Editorial

- Z. Švestka and C. de Jager 8, 3

Editorial

- Cornelis de Jager and Zdeněk Švestka 10, 243

Editorial

- Cornelis de Jager and Zdeněk Švestka 17, 287

Editorial

- Cornelis de Jager and Zdeněk Švestka 21, 3

Editorial

- Cornelis de Jager and Zdeněk Švestka 25, 3

Report from Editorial Board Meeting

- C. de Jager 34, 275

Editorial

- Cornelis de Jager and Zdeněk Švestka 56, 3

The Hard Life of an Editor

- Cornelis de Jager and Zdeněk Švestka 58, 3

An Editorial Note: Dr. Eugene N. Parker First Recipient of the George Ellery Hale Prize

- Cornelis de Jager and Zdeněk Švestka 60, 3

Electric Currents and Current Sheets

Currents in the Solar Atmosphere and a Theory of Solar Flares

- H. Alfvén and P. Carlqvist 1, 220

Electrical Conductivity Gradients in Sunspots

- Martin D. Altschuler 1, 377

Magnetic Fields and Flares in the Region CMP, 20 September 1963

- G. E. Moreton and A. B. Severny 3, 282

Magnetic-Field Structure Associated with Coronal Streamers

- P. A. Sturrock and Sheldon M. Smith 5, 87

A Possible Acceleration Mechanism for a Solar Surge

- Martin D. Altschuler, Carl G. Lilliequist, and Yoshinari Nakagawa 5, 366

Current Limitation and Solar Flares

- P. Carlqvist 7, 377

A Mechanism for the Build-Up of Flare Energy

- Jan Olof Stenflo 8, 115

A Model for Quiescent Prominences with Helical Structure

- Ulrich Anzer and E. Tandberg-Hanssen 11, 61

Electric Current in a Sunspot

- R. Jayanthan 12, 104

Electric Conductivity in the Inhomogeneous Photosphere and Sunspots

- M. Kopecký 14, 136

Gas-Magnetic Field Interactions in the Solar Corona

- G. W. Pneuman and Roger A. Kopp 18, 258

Acceleration of Electrons and Solar Flares Due to Quasi-Static Electric Field

- Tatsuo Takakura 19, 186

- A Moving Type IV Radio Burst and Its Relation to the Coronal Magnetic Field
George A. Dulk and Martin D. Altschuler **20**, 438
- A Physical Mechanism for the Production of Solar Flares
Hari K. Sen and Marvin L. White **23**, 146
- Transport of Cosmic Rays in the Solar Corona
L. A. Fisk and K. H. Schatten **23**, 204
- On Neutral Sheets in the Solar Wind
G. W. Pneuman **23**, 223
- A Classification of Magnetic Field Configurations Associated with Solar Flares
P. A. Sturrock **23**, 438
- A Method to Calculate Electric Currents in Quiescent Prominences
Ulrich Anzer **24**, 324
- Particle Motions in Coronal Streamers and Type III Radio Bursts
Dean F. Smith and G. W. Pneuman **25**, 461
- The Structure of Sunspots. I: Observational Constraints, Current Sheet Models
M. H. Gokhale and C. Zwaan **26**, 52
- Thermal Instability of Coronal Neutral Sheets and the Formation of Quiescent Prominences
M. A. Raadu and M. Kuperus **28**, 77
- Observation of a Possible Neutral Sheet in the Corona
John A. Eddy **30**, 385
- Why Syrovatskii's Mechanism of Dynamic Dissipation of Magnetic Fields Does Not Work
Ulrich Anzer **30**, 459
- The Nonlinear Acceleration of a Magnetic Disturbance in the Solar Corona
Martin D. Altschuler, Dean F. Smith, Paul N. Swartztrauber, and Eric R. Priest **32**, 153
- Association of Solar Prominences and Coronal Magnetic Sheets from Their Observed Correlation with Type III Radiobursts
C. Mercier **33**, 177
- Comments on 'Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts' by Dean F. Smith
D. B. Melrose **34**, 421
- Representations of Coronal Magnetic Fields Including Currents
Randolph H. Levine and Martin D. Altschuler **36**, 345
- A Model Combining the Polar and the Sector Structured Solar Magnetic Fields
Leif Svalgaard, John M. Wilcox, and Thomas L. Duvall **37**, 157
- Magnetic Field and Electric Current Structure in the Chromosphere
Dainis Dravins **37**, 323
- Coronal Electric Currents Produced by Photospheric Motions
J. Heyvaerts **38**, 419
- Energy Build-Up and Release Mechanisms in Solar Wind and Auroral Flares
Tatsuzo Obayashi **40**, 217
- Preflare Current Sheets in the Solar Atmosphere
E. R. Priest and M. A. Raadu **43**, 177
- Evidence for Opposed Currents in Active Region Loops
Randolph H. Levine **46**, 159
- Current Sheet Models of Solar Flares (*Invited Paper*)
E. R. Priest **47**, 41
- Similarities and Differences between Magnetospheric Substorms and Solar Flares (*Invited Paper*)
K. Schindler **47**, 91
- Observations in the Earth's Magnetotail Relating to Magnetic Merging (*Invited Paper*)
Edward W. Hones, Jr. **47**, 101
- Source of the Solar Flare Energy
M. D. Altschuler **47**, 183
- Thermal Evolution of Current Sheets and Flash Phase of Solar Flares
J. Heyvaerts and E. R. Priest **47**, 223
- Possible Spectral Diagnostics for Turbulent Electric Fields in Solar Flares
P. Bakshi and G. Kalman **47**, 307

Key Problems in Auroral Flare Processes (*Invited Summary*)

Tatsuzo Obayashi 47, 367

The Formation of Current Sheets during the Emergence of New Magnetic Flux from below the Photosphere

T. J. Tur and E. R. Priest 48, 89

The Growth of Electric Current in the Eruptive Prominence of June 8, 1974

J. McKim Malville 50, 395

Magnetic Field and Current Sheets in the Corona above Active Regions

Takashi Sakurai and Yutaka Uchida 52, 397

The Formation of Solar Prominences by Thermal Instability in a Current Sheet

E. A. Smith and E. R. Priest 53, 25

Some Aspects of Coronal Streamer Dynamics

Wim J. Weber 53, 59

How Flares Can Be Understood

A. B. Severny 53, 233

An Emerging Flux Model for Solar Flares

J. Heyvaerts, E. R. Priest, and D. M. Rust 53, 255

An Unstable Arch Model of a Solar Flare

Daniel S. Spicer 53, 305

Measurement of Plasma Wave Electric Fields in Solar Flares

W. D. Davis 54, 139

Electric Fields in the Solar Atmosphere

D. T. F. Möhlmann 54, 151

Transmission of Acoustic Wave Energy across a Magnetic Flux Sheath

P. Venkatakrishnan and M. H. Gokhale 54, 371

Electrostatically Unstable Heat Flow during Solar Flares and Its Consequences

D. S. Spicer 54, 379

A Sheet-Current Approach to Coronal-Interplanetary Modeling

Tyan Yeh and G. W. Pneuman 54, 419

Magnetic Field Energy Dissipation in Neutral Current Sheets

A. T. Altyntsev, V. I. Krasov, and V. M. Tomozov 55, 69

Current Sheets as the Source of Heating for Solar Active Regions

B. V. Somov and S. I. Syrovatskii 55, 393

Topological Structure of Coronal-Interplanetary Magnetic Field

Tyan Yeh 56, 439

Can Coronal Loop Transients Be Driven Magnetically?

Ulrich Anzer 57, 111

Diagnostics of Solar Flare Hard X-Ray Sources

Peter Hoyng, Joshua W. Knight, and Daniel S. Spicer 58, 139 *Errata* 59, 407

A Trigger Mechanism for the Emerging Flux Model of Solar Flares

T. J. Tur and E. R. Priest 58, 181

The Development of Coronal Electric Current Systems in Active Regions and Their Relation to Filaments and Flares

W. van Tend and M. Kuperus 59, 115

Average Photospheric Poloidal and Toroidal Magnetic Field Components near Solar Minimum

Thomas L. Duvall, Jr., Philip H. Scherrer, Leif Svalgaard, and John M. Wilcox 61, 233

Two-Dimensional Equilibrium of a Neutral Sheet in a Gravitational Field

Wim J. Weber 61, 345

A Possible Observational Test to Distinguish between Slow and Transient Current Buildup Prior to Solar Flares

D. S. Spicer 64, 121

The Heating of the Temperature Minimum Region in Solar Flares - A Reassessment

A. Gordon Emslie and Marcos E. Machado 64, 129

Magnetospheric Substorms and Solar Flares

S.-I. Akasofu 64, 333

The Importance of Photospheric Magnetic Field Complexity for Coronal Energy Storage

W. van Tend 66, 21

A Low β Coronal Loop Model. I: Kink Instabilities in the $\beta=0$ LimitR. M. J. Sillen and A. Kattenberg 67, 47 *Errata* 79, 401

Flux Linkages of Bipolar Sunspot Groups: A Computer Study

P. J. Baum and A. Bratenahl **67**, 245

A Classification Scheme for Solar Flare Models

D. S. Spicer and J. C. Brown **67**, 385

Energy Balance in Current Sheets: From Petschek to Gravity Driven Reconnection?

C. Mercier and J. Heyvaerts **68**, 151

Thermal Cyclotron Radio Emission of Neutral Current Sheets in the Solar Corona

V. V. Zheleznyakov and E. Ya. Zlotnik **68**, 317

Turbulence in Fast-Mode Shocks as a Triggering Mechanism in a Solar Flare

Wim J. Weber **69**, 119

On the Possibility of Observations of Current Sheets in Radio Band

V. D. Kuznetsov and S. I. Syrovatskii **69**, 361

Loop Models of Solar Flares: Revisions and Comparisons

D. S. Spicer **70**, 149

The Eruption of Active Region Filaments and Its Relation to the Triggering of a Solar Flare

M. Kuperus and W. van Tend **71**, 125

Current Confinement in Solar Coronal Loops

Claudio Chiuderi and Giorgio Einaudi **73**, 89

Internal Structure of Reconnecting Current Sheets and the Emerging Flux Model for Solar Flares

A. M. Milne and E. R. Priest **73**, 157

On the Presence of Electric Currents in the Solar Atmosphere. I: A Theoretical Framework

M. Hagyard, B. C. Low, and E. Tandberg-Hanssen **73**, 257

The Vertical Filamentary Structures of Quiescent Prominences

B. C. Low **75**, 119

Thermal Trigger for Solar Flares and Coronal Loops Formation

B. V. Somov and S. I. Syrovatskii **75**, 237

On Interplanetary Electric and Magnetic Fields

I. I. Alexeev, A. P. Kropotkin, and I. S. Veselovsky **79**, 385

Dissipation and Stability of Return Currents in Solar Flares

John C. Brown and John Hayward **80**, 129

Plasma Flow around Coronal Loops

Satoshi Hinata **80**, 173

The Energy of Electric Current Sheets. I: Models with Moving Magnetic Dipoles

Y. Q. Hu and B. C. Low **81**, 107

Electric Fields in Coronal Magnetic Loops

P. Foukal, P. Miller, and L. Gilliam **83**, 83

Electrical Conductivity in Sunspots and the Quiet Photosphere

P. Kovitya and L. Cram **84**, 45

The Energy of Electric Current Sheets. II: The Magnetic Free Energy and the Photospheric Magnetic Flux

B. C. Low and Y. Q. Hu **84**, 83

MHD Equilibrium and Stability Properties of a Bipolar Current Loop

Ming L. Xue and James Chen **84**, 119

A Dynamo Theory of Solar Flares

J. R. Kan, S.-I. Akasofu, and L. C. Lee **84**, 153

Heating of Chromospheric Magnetic Features by Direct Current Dissipation

Satoshi Hinata **87**, 95

Coronal Heating and Photospheric Boundary Conditions

D. S. Spicer **88**, 43

The Reason for Magnetospheric Substorms and Solar Flares

Walter J. Heikkilä **88**, 329

Prominence Motions and Their Implications for Magnetic Fields

J. L. Ballester and J. Kleczek **90**, 37

An Evaluation of the Possibility of Studying Flare Plasma Turbulence Using the Satellites of He I Line Forbidden Components

N. M. Firstova **90**, 269

Photospheric Electric Current and Transition Region Brightness within an Active Region

A. D. DeLoach, M. J. Hagyard, D. Rabin, R. L. Moore, J. B. Smith, Jr., E. A. West, and E. Tandberg-Hanssen **91**, 235

A Note on Magnetic Fields and Electric Currents in Solar Prominences

J. L. Ballester **94**, 151

Numerical Simulation of Reconnection in an Emerging Magnetic Flux Region

T. G. Forbes and E. R. Priest **94**, 315

Magnetic Reconnection in a High-Temperature Plasma of Solar Flares

B. V. Somov and V. S. Titov **95**, 141

Observations of Steady Anomalous Magnetic Heating in Thin Current Sheets

P. C. H. Martens, G. H. J. Van Den Oord, and P. Hoyng **96**, 253

Over-Reflection of Hydromagnetic Planetary-Gravity Waves at the Solar Helmet Streamers and Magnetic Sectors

O. M. El Mekki **96**, 397

The Structure of High Temperature Solar Flare Plasma in Non-Thermal Flare Models

A. Gordon Emslie **98**, 281

Current Interruption by Density Depression

J. S. Wagner, T. Tajima, and S.-I. Akasofu **98**, 305

On Sheared Magnetic Field Structures Containing Neutral Points

W. Zwingmann, K. Schindler, and J. Birn **99**, 133

Ellerman Bombs**On Arch-Filament Systems in Spotgroups**

A. Bruzek **2**, 451

On the Asymmetry of Moustaches

A. N. Koval and A. B. Severny **11**, 276

High Resolution Solar Images at 10 Microns: Sunspot Detail and Photometry

P. J. Turon and P. J. Léna **14**, 112

Solar Bright Points in 3840 Å and H α

Joan Vorpahl and Thomas Pope **25**, 347

Some Observational Results on Moustaches

Anton Bruzek **26**, 94

The Magnetic Properties of Solar Surges

J.-René Roy **28**, 95

Some Statistical Properties of Ellerman Bombs

J.-René Roy and H. Leparskas **30**, 449

Photospheric Velocity Field Associated with Moustaches

Reizaburo Kitai and Ichiro Kawaguchi **44**, 403

Numerical Hydrodynamics of the Jet Phenomena in the Solar Atmosphere. II: Surges

Kazunari Shibata, Takara Nishikawa, Reizaburo Kitai, and Yoshinori Suematsu **77**, 121

Morphological and Evolutional Features of Ellerman Bombs

H. Kurokawa, I. Kawaguchi, Y. Funakoshi, and Y. Nakai **79**, 77

Emission, Continuous (*see Spectrum, Continuum*)**Emission, Particle (*see Energetic Particles*)****Emission, X-Ray****The 44-60 Å Flux during the Ascending Period of the Solar Cycle No. 20 (1964-67)**

M. Landini, B. C. Monsignori Fossi, G. Poletto, and G. L. Tagliaferri **5**, 546

Observation of the Solar Soft X-Ray Component: Study of Its Relation to Transient and Slowly-Varying Phenomena Observed at Other Wavelengths

Richard G. Teske **6**, 193

Solar and Cosmic X-Rays Above 7.7 keV

Hugh S. Hudson, Laurence E. Peterson, and Daniel A. Schwartz **6**, 205

The Emission of Solar X-Rays in the 0.5-3 Å Wavelength Range and Its Relation to the Magnetic Configuration of Active Centers

G. Chambe **8**, 369

- Further Investigations of Solar X-Ray Sources Using D-Layer Ionization Behavior during Eclipses
David D. Meisel **8**, 477
- Iowa Catalog of Solar X-Ray Flux (2-12 Å)
Jerry F. Drake, Sr., Jean Gibson, O.S.B., and James A. Van Allen **10**, 433
- Further X-Ray Spectra of Solar Active Regions
R. M. Batstone, K. Evans, J. H. Parkinson, and K. A. Pounds **13**, 389
- Soft X-Ray Enhancement during Flares
S. D. Deshpande and J. N. Tandon **13**, 462
- X-Ray Observations of Solar Active Regions from OSO-5
J. H. Parkinson and K. A. Pounds **17**, 146
- A Method of Calculating 0-20 Å Solar X-Ray Flux and Its Spectral Distribution Using 9.1 cm Spectroheliograms
P. R. Sengupta **17**, 160
- Soft X-Ray Emitting Regions in the Solar Corona
M. Landini and B. C. Monsignori Fossi **17**, 379
- Soft Solar X-Rays and Solar Activity. VI: Optical Identification of Activity Associated with X-Ray Background Fluctuations
Richard G. Teske **21**, 146
- Localization of the Source of Flare X-Ray Emission during the Eclipse of 7 March, 1970
R. W. Kreplin and R. G. Taylor **21**, 452
- Results from OSO-IV: The Long Term Behavior of X-Ray Emitting Regions
A. Krieger, F. Paolini, G. S. Vaiana, and D. Webb **22**, 150
- The 1-55 Å X-Ray Emission from an Active Limb Prominence
A. C. Brinkman and M. L. Shaw **23**, 120
- Photographs of the Sun in the XUV-Region
M. Burger and J. H. Dijkstra **24**, 395
- Time Variations in the X-Ray Emission of Solar Active Regions
J. H. Parkinson **28**, 137
- An Investigation of the Structure of Coronal Active Regions
J. H. Parkinson **28**, 487
- A Study of Solar Radio Emission in the Light of Sengupta's Model of Coronal Active Regions
P. R. Sengupta and A. K. Chakraborty **30**, 395
- Measurement of the X-Ray Emission of the Solar Atmosphere during a Period of Low Activity
Richard S. Wolff **34**, 163
- A Multithermal Analysis of Solar X-Ray Emission
Kenneth P. Dere, Donald M. Horan, and Robert W. Kreplin **36**, 459
- Observations of Very Small Soft X-Ray Flares
W. M. Glencross, E. B. Dorling, and J. R. H. Herring **38**, 183
- X-Ray Heating of a Low-Temperature Region in Chromospheric Flares
B. V. Somov **42**, 235
- Crystal Spectrometer Studies of the Sun Employing a Rotation Modulation Collimator
D. H. Brabban, W. M. Glencross, and F. D. Rosenberg **42**, 355
- The Coronal Structure of Active Regions
M. Landini, B. C. Monsignori Fossi, A. Krieger, and G. S. Vaiana **44**, 69
- Thermal Models of Flaring Region Based on Observations by the SOLRAD 10 Satellite
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini **44**, 101
- Analysis of the Intensities and Profiles of the Spectral Line Mg XII 8.42 Å in the Solar X-Ray Spectrum
J. Jakimiec, V. V. Korneev, V. V. Krutov, I. A. Zhitnik, S. Płocieniak, B. Sylwester, and J. Sylwester **44**, 391
- The Relevance of Solar Flares to Astrophysics (*Invited Paper*)
P. A. Sturrock and J. W. Knight **47**, 401
- Comparison of the 9.1 cm and Soft X-Ray Emission from an Active Region
M. Gerassimenko, J. T. Nolte, and R. D. Petrasso **48**, 121
- Determination of the Energy or Pressure of a Solar X-Ray Structure Using X-Ray Filtergrams from a Single Filter
S. Kahler **48**, 255

- Directivity of Non-Thermal X-Ray Emission from Solar Flares
O. M. Kovrizhnikh, I. A. Savenko, and L. M. Chupova 50, 447
- A Model for X-Ray Emission from Loop Prominences
K. J. H. Phillips and J. B. Zirker 53, 41
- The Analysis and Interpretation of Solar X-Ray Photographs
J. H. Underwood and D. L. McKenzie 53, 417 *Erratum* 57, 485
- Observational Evidence of Continual Heating in X-Ray Emitting Coronal Loops
M. Gerassimenko, C. V. Solodyna, and J. T. Nolte 57, 103
- Soft X-Ray Emission and Chromospheric Flares
Marcos E. Machado 60, 341
- Multitemperature Analysis of Solar X-Ray Line Emission
J. Sylwester, J. Schrijver, and R. Mewe 67, 285
- Analysis of the High Resolution Mg XI X-Ray Spectra. III: Non-Thermal Interpretation of Some Spectra
M. Siarkowski, J. Sylwester, G. Bromboszcz, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Urnov, and I. A. Zhitnik 81, 63
- A Comparison of the Thick-Target Model with Stereo Data on the Height Structure of Solar Hard X-Ray Bursts
J. C. Brown, V. A. Carlaw, D. Cromwell, and S. R. Kane 88, 281
- Time Delays in Large and Small Loop Thermal Models for Hard X-Ray Bursts
Dean F. Smith and Lorant A. Muth 90, 83
- Heat Flux Saturation in Hydrodynamic Soft X-Ray Solar Flare Plasmas
I. J. D. Craig and J. W. Davys 90, 343
- X-Ray Resonance Scattering in a Spherically Symmetric Coronal Model
Bernhard M. Haisch and E. Scott Clafin 99, 101
- Nonradiative Activity Across the H-R Diagram. Which Types of Stars are Solar-Like? (*Invited Review Paper*)
Jeffrey L. Linsky 100, 333
- Stellar Analogs of Solar Magnetic Activity (*Invited Review Paper*)
Robert W. Noyes 100, 385
- Energetic Particles**
- The OSO-1 Solar Neutron Experiment
W. N. Hess and R. C. Kaifer 2, 202
- Neutron Monitor Observations of High-Energy Solar Particles during the New Cycle
G. A. Baird, G. G. Bell, S. P. Duggal, and M. A. Pomerantz 2, 491
- Solar Flare Injection and Propagation of Low-Energy Protons and Electrons in the Event of 7-9 July, 1966
R. P. Lin, S. W. Kahler, and E. C. Roelof 4, 338
- A Remark on 'Effects Associated with the Sector Boundary Crossing on July 8, 1966' by Z. Švestka
L. Křivský 4, 373
- OSO-III: Preliminary Scientific Results
John C. Brandt 6, 171
- High-Energy Proton, Helium, and Gamma-Ray Observations on OSO-III
M. F. Kaplon and D. Valentine 6, 216
- Upper Limit for the Solar Neutron Flux in the Energy Interval 20-120 MeV
D. J. Forrest and E. L. Chupp 6, 339
- Solar Flare Optical, Neutron and Gamma-Ray Emission
R. E. Lingenfelter 8, 341
- Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 (*Invited Review Paper*)
Z. Švestka and P. Simon 10, 3
- Solar Flare Alpha to Proton Ratio Changes Following Interplanetary Disturbances
L. J. Lanzerotti and M. F. Robbins 10, 212
- A Search for Energetic Neutrons Emitted during Solar Flares
R. R. Daniel, G. S. Gokhale, G. Joseph, P. J. Lavakare, and B. S. Sekhon 10, 465
- A Search for Solar Neutrons near Solar Maximum
Paolo Cortellesa, Paolo di Benedetto, and Constantinos Paizis 14, 427
- Type III Solar Radio Burst Storms Observed at Low Frequencies. I: Storm Morphology
Joseph Fainberg and R. G. Stone 15, 222

- Type III Solar Radio Burst Storms Observed at Low Frequencies. II: Average Exciter Speed
Joseph Fainberg and R. G. Stone **15**, 433
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. II: The Electron Emission Structure of Large Active Regions
R. P. Lin **15**, 453
- α -Particle Observations in the Solar Wind
V. Formisano, F. Palmiotto, and G. Moreno **15**, 479
- Long Term Storage of Relativistic Particles in the Solar Corona
George M. Simnett and Stephen S. Holt **16**, 208
- The Acceleration and Propagation of Solar Cosmic Rays as Deduced from the Relative Abundance of Protons to Helium Nuclei
Kunitomo Sakurai **17**, 459
- Observation of Solar Wind Heavy Ions
M. B. Cattaneo, V. Formisano, G. Moreno, F. Palmiotto, F. Palutan, and P. Saraceno **17**, 468
- The Helium-Enriched Interplanetary Plasma from the Proton Flares of August/September, 1966
J. Hirshberg, J. R. Asbridge, and D. E. Robbins **18**, 313
- On the Flux of Neutrons from Flares
Z. Švestka **19**, 202
- The Release of Energetic Particles from the Sun
G. M. Simnett **20**, 448
- A Search for Solar Neutrons near Solar Maximum, II
Paolo Cortellessa, Paolo di Benedetto, and Constantinos Paizis **20**, 474
- Solar Flares and Solar Wind Helium Enrichments: July 1965-July 1967
J. Hirshberg, S. J. Bame, and D. E. Robbins **23**, 467
- A Search for Neutrons of Solar Origin Using Balloon Borne Detectors 1967-69
C. J. Eyles, A. D. Linney, and G. K. Rochester **24**, 483
- Observation of Solar Particle Fluxes over Extended Solar Longitudes
R. P. Bukata, U. R. Rao, K. G. McCracken, and E. P. Keath **26**, 229
- Evidence for the Existence of Adiabatic Energy Loss in Interplanetary Space from Observations of the Decay of the February 25-March 2, 1969 Series of Solar Cosmic Ray Events
J. A. Lezniak and W. R. Webber **26**, 474
- Estimation of an Upper Limit for the Solar Neutron Emission during Large Flares
E. Kirsch **28**, 233
- The Continuous Emission of Low Energy Cosmic Rays during Solar Flares
Julius Feit **29**, 211
- Upper Limit to the 1-20 MeV Solar Neutron Flux
J. A. Lockwood, S. O. Ifedili, and R. W. Jenkins **30**, 183
- Variations of the Relative Abundances of He, (C, N, O) and Fe-Group Nuclei in Solar Cosmic Rays and Their Relationship to Solar Particle Acceleration
D. L. Bertsch, S. Biswas, C. E. Fichtel, C. J. Pellerin, and D. V. Reames **31**, 247
- The Possible Role of Energetic Electrons in the Production of Surges
S. W. Kahler **32**, 477
- On the Bulk Velocity of the Solar Wind α -Particles
G. Moreno and F. Palmiotto **34**, 243
- A Correlation between Time-Overlapping Solar Flares and the Release of Energetic Particles
G. M. Simnett **34**, 377
- A Search for Solar Neutrons during Solar Flares
S. O. Ifedili **39**, 233
- On the Low-Temperature Region of Chromospheric Flares
B. V. Somov and S. I. Syrovatskii **39**, 415
- Solar Cosmic Ray Composition above 10 MeV/Nucleon and Its Energy Dependence in the 4 August 1972 Event
D. L. Bertsch, S. Biswas, and D. V. Reames **39**, 479
- Solar Cycle Variation in Energetic Particle Emissivity of the Sun
Y. Hakura **39**, 493
- Phenomenology of the Subflare: A Synthesis of CINOF
C. de Jager **40**, 133

- Analysis of the August 7, 1972 White Light Flare: Light Curves and Correlation with Hard X-Rays
David M. Rust and Frank Hegwer **40**, 141
- Heavy Solar Cosmic Rays in the January 25, 1971 Solar Flare
Charles J. Pellerin, Jr. **41**, 449
- Observation of Temporal and Spatial Variations in the Fe/O Charge Composition of the Solar Particle Event of 4 July, 1974
T. P. Armstrong, S. M. Krimigis, D. Hovestadt, B. Klecker, and G. Gloeckler **49**, 395
- Study of Alpha Component Dynamics in the Solar Wind Using the Prognos Satellite
J. M. Bosqued, C. D'Uston, A. A. Zertsalov, and O. L. Vaisberg **51**, 231
- Influence of Finite Injections and of Interplanetary Propagation on Time-Intensity and Time-Anisotropy Profiles of Solar Cosmic Rays
B. M. Schulze, A. K. Richter, and Wibberenz **54**, 207
- Analysis of the Complex Solar Particle Event on April 29-30, 1973
T. Gombosi, J. Kóta, A. J. Somogyi, V. G. Kurt, B. M. Kuzhevskii, and Yu. I. Logachev **54**, 441
- Enhancement of Solar Heavy Nuclei at High Energies in the 4 July 1974 Event
D. L. Bertsch and D. V. Reames **55**, 491
- Coulomb Losses and the Nuclear Composition of the Solar Flare Accelerated Particles
A. A. Korchak **66**, 149
- Energetic Particles in Space
R. P. Lin **67**, 393
- Solar Neutrino and Solar Particles
D. Basu **81**, 363
- Gamma-Ray Lines and Neutrons from Solar Flares
R. Ramaty, R. J. Murphy, B. Kozlovsky, and R. E. Lingenfelter **86**, 395
- Characteristics of Gamma-Ray Line Flares as Observed in Hard X-Ray Emissions and Other Phenomena
T. Bai, B. R. Dennis, A. L. Kiplinger, L. E. Orwig, and K. J. Frost **86**, 409
- Energy and Nuclear Charge Dependence of Abundance Enhancements of Solar Cosmic Ray Heavy Ions in Three Large Solar Events
S. Biswas, N. Durgaprasad, and M. N. Vahia **89**, 163
- Interpretation of ^3He Abundance Variations in the Solar Wind
M. A. Coplan, K. W. Ogilvie, P. Bochsler, and J. Geiss **93**, 415
- Partial Reconstruction of the Initial Conditions for Streams of Energetic Electrons Associated with a Solar Type III Burst
R. J.-M. Grogard **94**, 165
- Energetic Ions in Solar γ -Ray Flares (*Invited Review Paper*)
Hugh S. Hudson **100**, 515
- Energetic Particles, Abundances** (*see Energetic Particles; Abundances*)
- Energetic Particles, Acceleration**
- Theory of Solar Bursts
Tatsuo Takakura **1**, 304 *Corrigenda 3, 624 and 6, 336*
- Stellar and Solar Flares
E. Schatzman **1**, 411
- A Possible Acceleration Mechanism for a Solar Surge
Martin D. Altschuler, Carl G. Lilliequist, and Yoshinari Nakagawa **5**, 366
- Current Limitation and Solar Flares
P. Carlqvist **7**, 377
- Plasma Turbulence in Solar Flares as an Explanation of Some Observed Phenomena
M. Friedman and S. M. Hamberger **8**, 104
- Solar Flare Optical, Neutron and Gamma-Ray Emission
R. E. Lingenfelter **8**, 341
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. I: The Relationship of ~ 40 keV Electron to Energetic Proton and Relativistic Electron Emission by the Sun
R. P. Lin **12**, 266
- The Phase of Particle Acceleration in the Flare Development
Z. Švestka **13**, 471

- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. II: The Electron Emission Structure of Large Active Regions
R. P. Lin 15, 453
- 10-100 keV Electron Acceleration and Emission from Solar Flares
R. P. Lin and H. S. Hudson 17, 412
- The Acceleration and Propagation of Solar Cosmic Rays as Deduced from the Relative Abundance of Protons to Helium Nuclei
Kunitomo Sakurai 17, 459
- On the Origin of Solar Flare X-Rays
A. A. Korchak 18, 284
- Acceleration of Electrons and Solar Flares Due to Quasi-Static Electric Field
Tatsuo Takakura 19, 186
- A Note on the Acceleration Phase of High-Energy Particles in the Solar Flare on 7 July, 1966
Kunitomo Sakurai 20, 147
- The Release of Energetic Particles from the Sun
G. M. Simnett 20, 448
- Location of the Electron Acceleration Region in Solar Flares
S. R. Kane and R. P. Lin 23, 457
- Possible Mechanism of Surge Formation in the Solar Atmosphere
Yu. V. Platov, B. V. Somov, and S. I. Syrovatskii 30, 139
- Why Syrovatskii's Mechanism of Dynamic Dissipation of Magnetic Fields Does Not Work
Ulrich Anzer 30, 459
- A Model of Solar Flares and Faculae
J. H. Piddington 31, 229
- Variations of the Relative Abundances of He, (C, N, O) and Fe-Group Nuclei in Solar Cosmic Rays and Their Relationship to Solar Particle Acceleration
D. L. Bertsch, S. Biswas, C. E. Fichtel, C. J. Pellerin, and D. V. Reames 31, 247
- The Nonlinear Acceleration of a Magnetic Disturbance in the Solar Corona
Martin D. Altschuler, Dean F. Smith, Paul N. Swartztrauber, and Eric R. Priest 32, 153
- Magnetic Fields, Loop Prominences and the Great Flares of August, 1972
David M. Rust and Varda Bar 33, 445
- Type II Radio Bursts and Particle Acceleration
Z. Švestka and L. Fritzová-Švestková 36, 417
- A Clue to the Trigger for Both the Type III Solar Radioburst and the Solar Flare
E. R. Priest and J. Heyvaerts 36, 433
- Resonant Scattering of Particles and Second Phase Acceleration in the Solar Corona
D. B. Melrose 37, 353
- The Alfvén-Wave Theory of Solar Flares
J. H. Piddington 38, 465
- Acceleration of Electrons in Absence of Detectable Optical Flares Deduced from Type III Radio Bursts, $H\alpha$ Activity and Soft X-Ray Emission
S. R. Kane, R. W. Kreplin, M.-J. Martres, M. Pick, and I. Soru-Escout 38, 483
- Report on the Solar Physics-Plasma Physics Workshop, held at Stanford University, 17-20 September 1974
P. A. Sturrock, P. J. Baum, J. M. Beckers, C. E. Newman, E. R. Priest, H. Rosenberg, D. F. Smith, and D. G. Wentzel (eds.) 46, 411
- The Role of Plasma Turbulence in the Development of Solar Flares (*Invited Paper*)
M. Kuperus 47, 79
- Thermal Evolution of Current Sheets and Flash Phase of Solar Flares
J. Heyvaerts and E. R. Priest 47, 223
- What Should be Observed on the Sun (*Invited Summary*)
Z. Švestka 47, 375
- The Relevance of Solar Flares to Astrophysics (*Invited Paper*)
P. A. Sturrock and J. W. Knight 47, 401
- Upper Cutoff of High Energy Solar Protons
Dj. Heristichi, G. Trottet, and J. Perez-Peraza 49, 151

- Gamma-Ray and Microwave Evidence for Two Phases of Acceleration in Solar Flares
T. Bai and R. Ramaty **49**, 343
- Non-Thermal Processes in Large Solar Flares
R. P. Lin and H. S. Hudson **50**, 153
- On the Problem of Power-Law Spectrum of Particles Accelerated in Solar Flares
A. A. Korchak **56**, 223 *Errata 58, 211*
- Prompt Solar Proton Events and Coronal Mass Ejections
S. W. Kahler, E. Hildner, and M. A. I. Van Hollebeke **57**, 429
- Heating and Acceleration of α -Particles in the Solar Wind
P. Revathy **58**, 397
- On Proton and Electron Acceleration by Shock Waves during Large Solar Flares
V. M. Gubchenko and V. V. Zaitsev **63**, 337
- Energy Release in Solar Flares
A. Gordon Emslie and David M. Rust **65**, 271
- First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares
Dean F. Smith **66**, 135
- Coulomb Losses and the Nuclear Composition of the Solar Flare Accelerated Particles
A. A. Korchak **66**, 149
- Particle Trapping and Acceleration during the August 1972 Event
X. Moussas **67**, 163
- Is There a Limit on Solar Flare Proton Fluxes?
D. D. Barbosa **67**, 181
- First Phase Heating and Particle Acceleration during Solar Flares by Fast Tearing Modes
D. S. Spicer **71**, 115
- Comment on 'First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares'
Gerard Van Hoven **73**, 205
- Second-Stage Acceleration in a Limb-Occulted Flare
H. S. Hudson, R. P. Lin, and R. T. Stewart **75**, 245
- Prompt Injection of Relativistic Protons from the September 1, 1971 Solar Flare
Edward W. Cliver **75**, 341
- The Role of Betatron Acceleration in Complex Solar Bursts
Judith T. Karpen **77**, 205
- Radio Emission by Parallel Acceleration Mechanism
V. Krishan and C. Sivaram **84**, 125
- A Dynamo Theory of Solar Flares
J. R. Kan, S.-I. Akasofu, and L. C. Lee **84**, 153
- High Energy Particle Acceleration in Solar Flares - Observational Aspects
E. L. Chupp **86**, 383
- Characteristics of Gamma-Ray Line Flares as Observed in Hard X-Ray Emissions and Other Phenomena
T. Bai, B. R. Dennis, A. L. Kiplinger, L. E. Orwig, and K. J. Frost **86**, 409
- Particle Acceleration in the 1981, April 1, Flare
Hiroshi Nakajima **86**, 427
- The Stages of Particle Acceleration
E. Chupp **86**, 435
- Prompt Acceleration of ≥ 30 MeV Per Nucleon Ions in Solar Flares
D. B. Melrose **89**, 149
- The Source Model of Low-Energy Electrons Responsible for Type I and Type III Radio Noise Storms
V. M. Gubchenko and V. V. Zaitsev **89**, 391
- On the Role of Energetic Particles in Solar Flares
R. Pérez-Enríquez **97**, 131
- On the Relation between Solar-Flare Gamma-Ray Emission and Proton Escape into Interplanetary Space
V. V. Zaitsev and A. V. Stepanov **99**, 313
- Energetic Particles, Electrons**
- Electrons > 40 keV and Protons > 500 keV of Solar Origin
R. P. Lin and K. A. Anderson **1**, 446

A Study of Energetic Solar Flare X-RaysR. L. Arnoldy, S. R. Kane, and J. R. Winckler **2**, 171**Solar Flare Injection and Propagation of Low-Energy Protons and Electrons in the Event of 7-9 July, 1966**R. P. Lin, S. W. Kahler, and E. C. Roelof **4**, 338**Effects Associated with the Sector Boundary Crossing on July 8, 1966**Z. Švestka **4**, 361**The Solar Particle Events of May 23 and May 28, 1967**S. T. Lindgren **5**, 382**Relativistic Electrons from Solar Flares**T. L. Cline and F. B. McDonald **5**, 507**Electrons and Protons in Long-Lived Streams of Energetic Solar Particles**K. A. Anderson **6**, 111**The Solar Particle Event of July 16-19, 1966 and Its Possible Association with a Flare on the Invisible Solar Hemisphere**Helen W. Dodson, E. Ruth Hedeman, Stephen W. Kahler, and Robert P. Lin **6**, 294**Comment on the Note by Friedman and Hamberger**Z. Švestka **8**, 400**Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 (*Invited Review Paper*)**Z. Švestka and P. Simon **10**, 3**The Emission and Propagation of ~40 keV Solar Flare Electrons. I: The Relationship of ~40 keV Electron to Energetic Proton and Relativistic Electron Emission by the Sun**R. P. Lin **12**, 266**The Emission and Propagation of ~40 keV Solar Flare Electrons. II: The Electron Emission Structure of Large Active Regions**R. P. Lin **15**, 453**On the Characteristics of the Solar Active Regions Responsible for the Generation of Type III Radio Bursts at Hectometric Frequencies in August 1968**Kunitomo Sakurai **16**, 125**Energetic Electrons Associated with Solar Flares and Their Relation to Type I Noise Activity**Kunitomo Sakurai **16**, 198**Long Term Storage of Relativistic Particles in the Solar Corona**George M. Simnett and Stephen S. Holt **16**, 208**The Degree of Anisotropy of Cosmic Ray Electrons of Solar Origin**F. R. Allum, R. A. R. Palmeira, U. R. Rao, K. G. McCracken, J. R. Harries, and I. Palmer **17**, 241**10-100 keV Electron Acceleration and Emission from Solar Flares**R. P. Lin and H. S. Hudson **17**, 412**Relativistic Electrons in Solar Particle Events**Dayton Datlowe **17**, 436**Additional Electron Flux Detection after Magnetic Perturbations**S. A. Volobuyev, A. M. Galper, V. V. Dmitrenko, V. G. Kirillov-Ugryumov, B. I. Luchkov, and E. M. Shermanzon **20**, 491**Magnetically Trapped Particles in the Lower Solar Atmosphere**A. O. Benz and T. Gold **21**, 157**A Comparison of Type III Solar Radio Burst Theories Using Satellite Radio Observations and Particle Measurements**Larry G. Evans, Joseph Fainberg, and R. G. Stone **21**, 198**Relativistic Electrons from the Sun Observed by IMP-4**G. M. Simnett **22**, 189**Location of the Electron Acceleration Region in Solar Flares**S. R. Kane and R. P. Lin **23**, 457**High Energy Electrons Detected during Solar Flares**C. Dilworth, D. Maccagni, F. Perotti, E. G. Tanzi, J. P. Mercier, A. Raviart, L. Treguer, and M. Gros **23**, 487**Evidence for Electron Excitation of Type III Radio Burst Emission**H. Alvarez, F. Haddock, and R. P. Lin **26**, 468

- Direct Observations of Low-Energy Solar Electrons Associated with a Type III Solar Radio Burst
L. A. Frank and D. A. Gurnett 27, 446
- Characteristics of Electron and High-Energy Proton Flares
Emmanuel T. Sarris and Stanley D. Shawhan 28, 519
- Evidence for Thin-Target X-Ray Emission in a Small Solar Flare on 26 February 1972
D. W. Datlowe and R. P. Lin 32, 459
- Effect of Solar Corona Conditions on Flare Particle Propagation
G. Cherki, J. P. Mercier, A. Raviart, L. Treguer, D. Maccagni, F. Perotti, and G. Villa 34, 223
- A Correlation between Time-Overlapping Solar Flares and the Release of Energetic Particles
G. M. Simnett 34, 377
- Implications of the Reported Low Energy Electron Gradients
J. A. Lezniak and W. R. Webber 34, 477
- White Light Flares: Protons or Electrons?
Paolo Cortellessa and Constantinos Paizis 42, 421
- Fast Solar Electrons, Interplanetary Plasma and km-Wave Type-III Radio Bursts Observed from the IMP-6 Spacecraft
Hector Alvarez, Robert P. Lin, and Samuel J. Bame 44, 485
- Electron Plasma Oscillations Associated with Type III Radio Emissions and Solar Electrons
D. A. Gurnett and L. A. Frank 45, 477
- Dynamics of a Cloud of Fast Electrons Traveling Through the Plasma
T. Takakura and H. Shibahashi 46, 323
- Quantitative Comparisons of Type III Radio Burst Intensity and Fast Electron Flux at 1 AU
R. J. Fitzenreiter, L. G. Evans, and R. P. Lin 46, 437
- The Relationship of Electron Plasma Oscillations to Type III Radio Emissions and Low-Energy Solar Electrons (*Abstract only*)
D. A. Gurnett and L. A. Frank 46, 459
- Interplanetary Scattering of Fast Solar Electrons Deduced from Type III Bursts Observed at Low Frequencies
H. Alvarez and R. P. Lin 46, 477
- Type III Solar Radioburst Profiles and the Associated Electron Energy Spectra (*Abstract only*)
C. C. Harvey 46, 509
- Coherent Propagation of Non-Relativistic Solar Electrons
V. G. Kurt, Yu. I. Logachev, and N. F. Pissarenko 53, 157
- Scattering of Fast Flare Electrons in Solar Atmosphere and Their X-Ray Spectrum
G. Elwert and R. R. Rausaria 57, 409
- Indirect Estimation of Energy Disposition by Non-Thermal Electrons in Solar Flares
H. S. Hudson, R. C. Canfield, and S. R. Kane 60, 137
- On Proton and Electron Acceleration by Shock Waves during Large Solar Flares
V. M. Gubchenko and V. V. Zaitsev 63, 337
- Prompt Injection of Relativistic Protons from the September 1, 1971 Solar Flare
Edward W. Cliver 75, 341
- Study on the Onsets of Solar Energetic Electron Events
E. T. Sarris, P. C. Trochoutsos, and G. C. Anagnostopoulos 83, 51
- Energetic Electrons as an Energy Transport Mechanism in Solar Flares
A. Gordon Emslie 86, 133
- Relation between Hard X-Ray Spectra and Electron Energy Spectra
Ikuro Suzuki and Kin-Aki Kawabata 86, 253
- Is the Electron Distribution Thermal or Nonthermal?
G. Dulk 86, 451
- Comparisons of Solar Flare X-Ray Producing and Escaping Electrons from ~ 2 to 100 keV
Lian-De Pan, R. P. Lin, and S. R. Kane 91, 345
- A Quasi-One-Dimensional Velocity Regime of Super-Thermal Electron Stream Propagation through the Solar Corona
B. N. Levin 92, 317
- Propagation of Energetic Electron Streams in Solar Flares
Yung Mok 95, 181

The Structure of High Temperature Solar Flare Plasma in Non-Thermal Flare Models

A. Gordon Emslie **98**, 281

Energetic Solar Electrons in the Interplanetary Medium (*Invited Review Paper*)

R. P. Lin **100**, 537

Energetic Particles, Energy Spectrum
Solar Flare Injection and Propagation of Low-Energy Protons and Electrons in the Event of 7-9 July, 1966

R. P. Lin, S. W. Kahler, and E. C. Roelof **4**, 338

Relativistic Electrons from Solar Flares

T. L. Cline and F. B. McDonald **5**, 507

High-Energy Proton, Helium, and Gamma-Ray Observations on OSO-III

M. F. Kaplon and D. Valentine **6**, 216

A Comparison of Energetic Storm Protons to Halo Protons

S. W. Kahler **8**, 166

Solar Protons $E > 100$ MeV Incident over Antarctica during January-February 1967

J. R. Barcus **8**, 186

Neutron Monitor and Pioneer 6 and 7 Studies of the January 28, 1967 Solar Flare Event

R. P. Bukata, P. T. Gronstal, R. A. R. Palmeira, K. G. McCracken, and U. R. Rao **10**, 198

Solar Flare Alpha to Proton Ratio Changes Following Interplanetary Disturbances

L. J. Lanzerotti and M. F. Robbins **10**, 212

An Instrument to Measure Anisotropies of Cosmic Ray Electrons and Protons for the Explorer 34 Satellite

W. C. Bartley, K. G. McCracken, U. R. Rao, J. R. Harries, R. A. R. Palmeira, and F. R. Allum **17**, 218

10-100 keV Electron Acceleration and Emission from Solar Flares

R. P. Lin and H. S. Hudson **17**, 412

Relativistic Electrons in Solar Particle Events

Dayton Datlowe **17**, 436

Observation of Solar Wind Heavy Ions

M. B. Cattaneo, V. Formisano, G. Moreno, F. Palmiotto, F. Palutan, and P. Saraceno **17**, 468

The Decay Phase of Solar Flare Events

K. G. McCracken, U. R. Rao, R. P. Bukata, and E. P. Keath **18**, 100

Balloon Observations of Solar Protons on September 29-30, 1968, over Iceland

Dj. Heristchi, J. P. Legrand, and D. Petrou **18**, 321

The Deduction of Energy Spectra of Non-Thermal Electrons in Flares from the Observed Dynamic Spectra of Hard X-Ray Bursts

John C. Brown **18**, 489

Low-Energy Proton Increases Associated with Interplanetary Shock Waves

R. A. R. Palmeira, F. R. Allum, and U. R. Rao **21**, 204

Relativistic Electrons from the Sun Observed by IMP-4

G. M. Simnett **22**, 189

Observation of Solar Particle Fluxes over Extended Solar Longitudes

R. P. Bukata, U. R. Rao, K. G. McCracken, and E. P. Keath **26**, 229

Evidence for a Two-Component Injection of Cosmic Rays from the Solar Flare of 1969, March 30

I. D. Palmer and S. F. Smerd **26**, 460

Energetic Solar Particles and Their Relation to Optical Flares

S. Biswas and B. Radhakrishnan **28**, 211

A Correlation between Time-Overlapping Solar Flares and the Release of Energetic Particles

G. M. Simnett **34**, 377

Implications of the Reported Low Energy Electron Gradients

J. A. Lezniak and W. R. Webber **34**, 477

Propagation of Flare Protons in the Solar Atmosphere

R. Reinhard and G. Wibberenz **36**, 473

Solar Cosmic Ray Composition above 10 MeV/Nucleon and Its Energy Dependence in the 4 August 1972 Event

D. L. Bertsch, S. Biswas, and D. V. Reames **39**, 479

The Variation of Solar Proton Energy Spectra and Size Distribution with Heliolongitude

M. A. I. van Hollebeke, L. S. Ma Sung, and F. B. McDonald **41**, 189

Heavy Solar Cosmic Rays in the January 25, 1971 Solar Flare

Charles J. Pellerin, Jr. **41**, 449

- Determination of the Upper Cutoff of the 1-2 September 1971 Proton Event from Satellite Measurements
Dj. Heristchi and G. Trottet 41, 459
- Electron Plasma Oscillations Associated with Type III Radio Emissions and Solar Electrons
D. A. Gurnett and L. A. Frank 45, 477
- Upper Cutoff of High Energy Solar Protons
Dj. Heristchi, G. Trottet, and J. Perez-Peraza 49, 151
- Observation of Temporal and Spatial Variations in the Fe/O Charge Composition of the Solar Particle Event of 4 July, 1974
T. P. Armstrong, M. Krimigis, D. Hovestadt, B. Klecker, and G. Gloeckler 49, 395
- Enhancement of Solar Heavy Nuclei at High Energies in the 4 July 1974 Event
D. L. Bertsch and D. V. Reames 55, 491
- Solar Wind Heavy Ions from Flare-Heated Coronal Plasma
S. J. Bame, J. R. Asbridge, W. C. Feldman, E. E. Fenimore, and J. T. Gosling 62, 179
- Coulomb Losses and the Nuclear Composition of the Solar Flare Accelerated Particles
A. A. Korchak 66, 149
- Energetic Particles in Space
R. P. Lin 67, 393
- Relation between Hard X-Ray Spectra and Electron Energy Spectra
Ikuro Suzuki and Kin-Aki Kawabata 86, 253
- Gamma-Ray Lines and Neutrons from Solar Flares
R. Ramaty, R. J. Murphy, B. Kozlovsky, and R. E. Lingenfelter 86, 395
- Determination of Solar Wind Elemental Abundances from M/Q Observations during Three Period in 1980
S. Kunz, P. Bochsler, J. Geiss, K. W. Ogilvie, and M. A. Coplan 88, 359
- Energy and Nuclear Charge Dependence of Abundance Enhancements of Solar Cosmic Ray Heavy Ions in Three Large Solar Events
S. Biswas, N. Durgaprasad, and M. N. Vahia 89, 163
- Pulsations of Type IV Radio Bursts as an Indicator of Protonability of Solar Flares
V. V. Zaitsev, A. V. Stepanov, and G. P. Chernov 93, 363
- Energetic Solar Electrons in the Interplanetary Medium (*Invited Review Paper*)
R. P. Lin 100, 537
- Energetic Particles, Heavy Nuclei** (*see Energetic Particles*)
- Energetic Particles, Helium Nuclei** (*see Energetic Particles*)
- Energetic Particles, Medium Nuclei** (*see Energetic Particles*)
- Energetic Particles, Neutrons** (*see Energetic Particles*)
- Energetic Particles, Propagation**
- Electrons >40 keV and Protons >500 keV of Solar Origin
R. P. Lin and K. A. Anderson 1, 446
- Energetic Protons from the Solar Flare of March 24, 1966
S. W. Kahler, J. H. Primbsch, and K. A. Anderson 2, 179
- Neutron Monitor Observations of High-Energy Solar Particles during the New Cycle
G. A. Baird, G. G. Bell, S. P. Duggal, and M. A. Pomerantz 2, 491
- Solar Flare Injection and Propagation of Low-Energy Protons and Electrons in the Event of 7-9 July, 1966
R. P. Lin, S. W. Kahler, and E. C. Roelof 4, 338
- Relativistic Electrons from Solar Flares
T. L. Cline and F. B. McDonald 5, 507
- The Solar Particle Event of July 16-19, 1966 and Its Possible Association with a Flare on the Invisible Solar Hemisphere
Helen W. Dodson, E. Ruth Hedeman, Stephen W. Kahler, and Robert P. Lin 6, 294
- Anisotropies of Solar Cosmic Rays
L. A. Fisk and W. I. Axford 7, 486
- A Comparison of Energetic Storm Protons to Halo Protons
S. W. Kahler 8, 166
- Solar Protons $E > 100$ MeV Incident over Antarctica during January-February 1967
J. R. Barcus 8, 186

- Neutron Monitor and Pioneer 6 and 7 Studies of the January 28, 1967 Solar Flare Event
R. P. Bukata, P. T. Gronstal, R. A. R. Palmeira, K. G. McCracken, and U. R. Rao **10**, 198
- Discussion of Paper 'A Comparison of Energetic Storm Protons to Halo Protons'
L. J. Lanzerotti **11**, 145
- Reply to Discussion by Lanzerotti
Stephen W. Kahler **11**, 148
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. I: The Relationship of ~ 40 keV Electron to Energetic Proton and Relativistic Electron Emission by the Sun
R. P. Lin **12**, 266
- Radial Gradients and Anisotropies of Cosmic Rays in the Interplanetary Medium
L. A. Fisk and W. I. Axford **12**, 304
- Anisotropic Solar Cosmic Ray Propagation in an Inhomogeneous Medium, II
Leonard F. Burlaga **12**, 317
- The Small Anisotropy and the Rigidity Spectrum of the March 30, 1969 Solar Flare Event
R. P. Bukata, P. T. Gronstal, and R. A. R. Palmeira **14**, 419
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. II: The Electron Emission Structure of Large Active Regions
R. P. Lin **15**, 453
- Long Term Storage of Relativistic Particles in the Solar Corona
George M. Simnett and Stephen S. Holt **16**, 208
- Longitudinal Distribution of PCA Sources on the Sun
L. Fritzová-Švestková and Z. Švestka **17**, 212
- An Instrument to Measure Anisotropies of Cosmic Ray Electrons and Protons for the Explorer 34 Satellite
W. C. Bartley, K. G. McCracken, U. R. Rao, J. R. Harries, R. A. R. Palmeira, and F. R. Allum **17**, 218
- The Degree of Anisotropy of Cosmic Ray Electrons of Solar Origin
F. R. Allum, R. A. R. Palmeira, U. R. Rao, K. G. McCracken, J. R. Harries, and I. Palmer **17**, 241
- Relativistic Electrons in Solar Particle Events
Dayton Datlowe **17**, 436
- The Acceleration and Propagation of Solar Cosmic Rays as Deduced from the Relative Abundance of Protons to Helium Nuclei
Kunitomo Sakurai **17**, 459
- The Effect of a Bounded Interplanetary Diffusion Medium on the Propagation of Solar Flare Cosmic Rays
Julius Feit **17**, 473
- The Decay Phase of Solar Flare Events
K. G. McCracken, U. R. Rao, R. P. Bukata, and E. P. Keath **18**, 100
- Cosmic Ray Modulation Produced by Radial Density Gradients in the Interplanetary Medium
L. R. Barnden **18**, 165
- The Anomalous Distribution in Heliocentric Longitude of Solar Injected Cosmic Radiation
E. P. Keath, R. P. Bukata, K. G. McCracken, and U. R. Rao **18**, 503
- Anisotropy Characteristics of Low Energy Cosmic Ray Population of Solar Origin
U. R. Rao, K. G. McCracken, F. R. Allum, R. A. R. Palmeira, W. C. Bartley, and I. Palmer **19**, 209
- The Unusual Anisotropic Solar Particle Event of November 18, 1968
S. P. Duggal, I. Guidi, and M. A. Pomerantz **19**, 234
- Propagation of Low Energy Protons Associated with the 24 January 1969 Solar Flare
A. Balogh, P. C. Hedgecock, R. J. Hynds, and J. Sear **20**, 150
- The Propagation of Solar Cosmic-Ray Bursts
C. K. Ng and L. J. Gleeson **20**, 166
- The Release of Energetic Particles from the Sun
G. M. Simnett **20**, 448
- Magnetically Trapped Particles in the Lower Solar Atmosphere
A. O. Benz and T. Gold **21**, 157
- Low-Energy Proton Increases Associated with Interplanetary Shock Waves
R. A. R. Palmeira, F. R. Allum, and U. R. Rao **21**, 204
- Relativistic Electrons from the Sun Observed by IMP-4
G. M. Simnett **22**, 189

- Streaming of Galactic Cosmic Rays in the Interplanetary Magnetic Field
A. Hashim, M. Bercovitch, and J. F. Steljes 22, 220
- Transport of Cosmic Rays in the Solar Corona
L. A. Fisk and K. H. Schatten 23, 204
- High Energy Electrons Detected during Solar Flares
C. Dilworth, D. Maccagni, F. Perotti, E. G. Tanzi, J. P. Mercier, A. Raviart, L. Treguer, and M. Gros 23, 487
- Evidence for a Two-Component Injection of Cosmic Rays from the Solar Flare of 1969, March 30
I. D. Palmer and S. F. Smerd 26, 460
- Evidence for the Existence of Adiabatic Energy Loss in Interplanetary Space from Observations of the Decay of the February 25-March 2, 1969 Series of Solar Cosmic Ray Events
J. A. Lezniak and W. R. Webber 26, 474
- Sectorial Anisotropy of Solar Cosmic Rays
S. P. Duggal and M. A. Pomerantz 27, 227
- Lifetime of Solar Flare Particles in Coronal Storage Regions
Kinsey A. Anderson 27, 442
- Direct Observations of Low-Energy Solar Electrons Associated with a Type III Solar Radio Burst
L. A. Frank and D. A. Gurnett 27, 446
- Shock Wave Effects in Solar Cosmic Ray Events
I. D. Palmer 27, 466
- The Continuous Emission of Low Energy Cosmic Rays during Solar Flares
Julius Feit 29, 211
- A Comparison of Theoretical and Experimental Estimates of the Solar Proton Diffusion Coefficient during Three Flare Events
S. Webb, A. Balogh, J. J. Quenby, and J. F. Sear 29, 477 *Erratum* 30, 548
- Energy Losses of Solar Cosmic Rays in Interplanetary Space
I. D. Palmer 30, 235
- Evidence for Confinement of Low-Energy Cosmic Rays Ahead of Interplanetary Shock Waves
R. A. R. Palmeira and F. R. Allum 30, 243
- Effect of Solar Corona Conditions on Flare Particle Propagation
G. Cherki, J. P. Mercier, A. Raviart, L. Treguer, D. Maccagni, F. Perotti, and G. Villa 34, 223
- Implications of the Reported Low Energy Electron Gradients
J. A. Lezniak and W. R. Webber 34, 477
- Propagation of Flare Protons in the Solar Atmosphere
R. Reinhard and G. Wibberenz 36, 473
- Numerical Investigation of Non-Resonant and Resonant Scattering of Charged Particles with a Spatially Varying Magnetic Field
S. Webb and J. J. Quenby 37, 235
- Resonant Scattering of Particles and Second Phase Acceleration in the Solar Corona
D. B. Melrose 37, 353
- Cosmic Ray Anisotropies Observed Late in the Decay Phase of Solar Flare Events
F. R. Allum, R. A. R. Palmeira, K. G. McCracken, U. R. Rao, D. H. Fairfield, and L. J. Gleeson 38, 227
- Intensities and Anisotropies of Low Energy Solar Protons Measured Aboard the Satellites Azur, Explorer 35 and 41, November 1969-April 1970
E. Kirsch and J. W. Münch 39, 459
- Monte Carlo Model of the Highly Anisotropic Solar Proton Event of 20 April 1971
I. D. Palmer, R. A. R. Palmeira, and F. R. Allum 40, 449
- Propagation of Solar-Flare Cosmic Rays along Corotating Interplanetary Flux-Tubes
C. K. Ng and L. J. Gleeson 43, 475
- Fast Solar Electrons, Interplanetary Plasma and km-Wave Type-III Radio Bursts Observed from the IMP-6 Spacecraft
Hector Alvarez, Robert P. Lin, and Samuel J. Bame 44, 485
- Simulation of Solar Flare Particle Interaction with Interplanetary Shock Waves
M. Scholer and G. Morfill 45, 227
- Dynamics of a Cloud of Fast Electrons Traveling Through the Plasma
T. Takakura and H. Shibahashi 46, 323

A Complete Model of the Propagation of Solar-Flare Cosmic RaysC. K. Ng and L. J. Gleeson **46**, 347**Interplanetary Scattering of Fast Solar Electrons Deduced from Type III Bursts Observed at Low Frequencies**H. Alvarez and R. P. Lin **46**, 477**Low-Energy Particle Events Associated with Sector Boundaries**Z. Švestka, L. Fritřová-Švestková, J. T. Nolte, H. W. Dodson-Prince, and E. R. Hedeman **50**, 491**Coherent Propagation of Non-Relativistic Solar Electrons**V. G. Kurt, Yu. I. Logachev, and N. F. Pissarenko **53**, 157**Influence of Finite Injections and of Interplanetary Propagation on Time-Intensity and Time-Anisotropy Profiles of Solar Cosmic Rays**B. M. Schulze, A. K. Richter, and G. Wibberenz **54**, 207**Solar Particle Propagation from 1 to 5 AU**R. D. Zwickl and W. R. Webber **54**, 457**Solutions of the Fokker-Planck Equation for the Early Time When the Diffusive Modes Are Not Yet Valid**Jörn E. Kunstmann **59**, 395**Motion of Solar Cosmic Rays in the Coronal Magnetic Field**D. J. Mullan and K. H. Schatten **62**, 153**Energetic Solar Particle Events in a Stream-Structured Solar Wind**M. Scholer, G. Morfill, and A. K. Richter **64**, 391**Particle Trapping and Acceleration during the August 1972 Event**X. Moussas **67**, 163**The November 22, 1977 Solar Flare: Evidence for 2.23 and 4.43 MeV Line Emission from the Signe 2 MP Experiment**G. Chambon, K. Hurley, M. Niel, R. Talon, G. Vedrenne, I. V. Estuline, and O. B. Likine **69**, 147**Study on the Onsets of Solar Energetic Electron Events**E. T. Sarris, P. C. Trochoutsos, and G. C. Anagnostopoulos **83**, 51**Mass Transport and the Interaction of Loops**G. Doschek **86**, 454**Mean Free Paths and Diffusion Coefficients for Energetic Protons at Small Heliodistances Calculated Using Helios 1 and 2 Data**J. F. Valdés Galicia, X. Moussas, J. J. Quenby, F. M. Neubauer, and R. Schween **91**, 399**A Quasi-One-Dimensional Velocity Regime of Super-Thermal Electron Stream Propagation through the Solar Corona**B. N. Levin **92**, 317**Propagation of Energetic Electron Streams in Solar Flares**Yung Mok **95**, 181**On the Role of Energetic Particles in Solar Flares**R. Pérez-Enriquez **97**, 131**Energetic Particles, Protons****Riometer Observations in the Polar Caps of Solar Cosmic Ray Events during the IQSY**A. D. Goedeke, A. J. Masley, and G. W. Adams **1**, 285**Electrons >40 keV and Protons >500 keV of Solar Origin**R. P. Lin and K. A. Anderson **1**, 446**A Study of Energetic Solar Flare X-Rays**R. L. Arnoldy, S. R. Kane, and J. R. Winckler **2**, 171**Energetic Protons from the Solar Flare of March 24, 1966**S. W. Kahler, J. H. Primbsch, and K. A. Anderson **2**, 179**Solar Flare Injection and Propagation of Low-Energy Protons and Electrons in the Event of 7-9 July, 1966**R. P. Lin, S. W. Kahler, and E. C. Roelof **4**, 338**Effects Associated with the Sector Boundary Crossing on July 8, 1966**Z. Švestka **4**, 361**The Solar Particle Events of May 23 and May 28, 1967**S. T. Lindgren **5**, 382**Electrons and Protons in Long-Lived Streams of Energetic Solar Particles**K. A. Anderson **6**, 111

- High-Energy Proton, Helium, and Gamma-Ray Observations on OSO-III
M. F. Kaplon and D. Valentine 6, 216
- The Solar Particle Event of July 16-19, 1966 and Its Possible Association with a Flare on the Invisible Solar Hemisphere
Helen W. Dodson, E. Ruth Hedeman, Stephen W. Kahler, and Robert P. Lin 6, 294
- A Comparison of Energetic Storm Protons to Halo Protons
S. W. Kahler 8, 166
- Solar Protons $E > 100$ MeV Incident over Antarctica during January-February 1967
J. R. Barcus 8, 186
- On a Possible Proton Origin for Type V Continuum Radiation from a Solar Flare
M. Friedman and S. M. Hamberger 8, 398
- Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461
(*Invited Review Paper*)
Z. Švestka and P. Simon 10, 3
- Solar Flare Alpha to Proton Ratio Changes Following Interplanetary Disturbances
L. J. Lanzerotti and M. F. Robbins 10, 212
- Discussion of Paper 'A Comparison of Energetic Storm Protons to Halo Protons'
L. J. Lanzerotti 11, 145
- Reply to Discussion by Lanzerotti
Stephen W. Kahler 11, 148
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. I: The Relationship of ~ 40 keV Electron to Energetic Proton and Relativistic Electron Emission by the Sun
R. P. Lin 12, 266
- Radial Gradients and Anisotropies of Cosmic Rays in the Interplanetary Medium
L. A. Fisk and W. I. Axford 12, 304
- A Search for Solar Neutrons near Solar Maximum
Paolo Cortellessa, Paolo di Benedetto, and Constantinos Paizis 14, 427
- Long Term Storage of Relativistic Particles in the Solar Corona
George M. Simnett and Stephen S. Holt 16, 208
- Solar Proton Event Classification System
D. F. Smart and M. A. Shea 16, 484
- The Degree of Anisotropy of Cosmic Ray Electrons of Solar Origin
F. R. Allum, R. A. R. Palmeira, U. R. Rao, K. G. McCracken, J. R. Harries, and I. Palmer 17, 241
- The Acceleration and Propagation of Solar Cosmic Rays as Deduced from the Relative Abundance of Protons to Helium Nuclei
Kunitomo Sakurai 17, 459
- Observation of Solar Wind Heavy Ions
M. B. Cattaneo, V. Formisano, G. Moreno, F. Palmiotto, F. Palutan, and P. Saraceno 17, 468
- Balloon Observations of Solar Protons on September 29-30, 1968, over Iceland
Dj. Heristchi, J. P. Legrand, and D. Petrou 18, 321
- The Anomalous Distribution in Heliocentric Longitude of Solar Injected Cosmic Radiation
E. P. Keath, R. P. Bukata, K. G. McCracken, and U. R. Rao 18, 503
- Solar Microwave Bursts as Indicators of the Occurrence of Solar Proton Emission
David L. Croom 19, 152
- Forecasting the Intensity of Solar Proton Events from the Time Characteristics of Solar Microwave Bursts
David L. Croom 19, 171
- Anisotropy Characteristics of Low Energy Cosmic Ray Population of Solar Origin
U. R. Rao, K. G. McCracken, F. R. Allum, R. A. R. Palmeira, W. C. Bartley, and I. Palmer 19, 209
- The Unusual Anisotropic Solar Particle Event of November 18, 1968
S. P. Duggal, I. Guidi, and M. A. Pomerantz 19, 234
- The Solar Longitude Dependence of Proton Event Delay Time
E. Barouch, M. Gros, and P. Masse 19, 483
- Spectral Features of Large Type IV Bursts and Interrelation to Solar-Terrestrial Phenomena
S. T. Akinyan, E. I. Mogilevsky, A. Böhme, and A. Krüger 20, 112
- Propagation of Low Energy Protons Associated with the 24 January 1969 Solar Flare
A. Balogh, P. C. Hedgcock, R. J. Hynds, and J. Sear 20, 150

- Magnetically Trapped Particles in the Lower Solar Atmosphere
A. O. Benz and T. Gold **21**, 157
- Low-Energy Proton Increases Associated with Interplanetary Shock Waves
R. A. R. Palmeira, F. R. Allum, and U. R. Rao **21**, 204
- Relativistic Electrons from the Sun Observed by IMP-4
G. M. Simnett **22**, 189
- Change of Solar Flare Proton to Alpha Ratios during an Energetic Storm Particle Event
M. Scholer, D. Hovestadt, and B. Häusler **24**, 475
- Spectral Behaviour and Proton Effects of the Type IV Broad-Band Continua
A. Böhme **25**, 478
- Evidence for the Existence of Adiabatic Energy Loss in Interplanetary Space from Observations of the Decay of the February 25-March 2, 1969 Series of Solar Cosmic Ray Events
J. A. Lezniak and W. R. Webber **26**, 474
- Shock Wave Effects in Solar Cosmic Ray Events
I. D. Palmer **27**, 466
- Energetic Solar Particles and Their Relation to Optical Flares
S. Biswas and B. Radhakrishnan **28**, 211
- Characteristics of Electron and High-Energy Proton Flares
Emmanuel T. Sarris and Stanley D. Shawhan **28**, 519
- A Comparison of Theoretical and Experimental Estimates of the Solar Proton Diffusion Coefficient during Three Flare Events
S. Webb, A. Balogh, J. J. Quenby, and J. F. Sear **29**, 477 *Erratum 30, 548*
- Energy Losses of Solar Cosmic Rays in Interplanetary Space
I. D. Palmer **30**, 235
- Evidence for Confinement of Low-Energy Cosmic Rays Ahead of Interplanetary Shock Waves
R. A. R. Palmeira and F. R. Allum **30**, 243
- Reply to 'Shock Wave Effects in Solar Cosmic Ray Events' by I. D. Palmer
S. W. Kahler **33**, 239
- On the Possibility of Detecting Abundance Inhomogeneities Resulting from Spallation Reactions in the Solar Photosphere
Lennart Hultqvist **34**, 25
- Effect of Solar Corona Conditions on Flare Particle Propagation
G. Cherki, J. P. Mercier, A. Raviart, L. Treguer, D. Maccagni, F. Perotti, and G. Villa **34**, 223
- A Correlation between Time-Overlapping Solar Flares and the Release of Energetic Particles
G. M. Simnett **34**, 377
- Type II Radio Bursts and Particle Acceleration
Z. Švestka and L. Fritzová-Švestková **36**, 417
- Propagation of Flare Protons in the Solar Atmosphere
R. Reinhard and G. Wibberenz **36**, 473
- Cosmic Ray Anisotropies Observed Late in the Decay Phase of Solar Flare Events
F. R. Allum, R. A. R. Palmeira, K. G. McCracken, U. R. Rao, D. H. Fairfield, and L. J. Gleeson **38**, 227
- Intensities and Anisotropies of Low Energy Solar Protons Measured Aboard the Satellites Azur, Explorer 35 and 41, November 1969-April 1970
E. Kirsch and J. W. Münch **39**, 459
- Solar Cosmic Ray Composition above 10 MeV/Nucleon and Its Energy Dependence in the 4 August 1972 Event
D. L. Bertsch, S. Biswas, and D. V. Reames **39**, 479
- Solar Cycle Variation in Energetic Particle Emissivity of the Sun
Y. Hakura **39**, 493
- Monte Carlo Model of the Highly Anisotropic Solar Proton Event of 20 April 1971
I. D. Palmer, R. A. R. Palmeira, and F. R. Allum **40**, 449
- The Variation of Solar Proton Energy Spectra and Size Distribution with Heliolongitude
M. A. I. van Hollebeke, L. S. Ma Sung, and F. B. McDonald **41**, 189
- Determination of the Upper Cutoff of the 1-2 September 1971 Proton Event from Satellite Measurements
Dj. Heristchi and G. Trotter **41**, 459
- White Light Flares: Protons or Electrons?
Paolo Cortellessa and Constantinos Paizis **42**, 421

Upper Cutoff of High Energy Solar Protons

Dj. Heristchi, G. Trottet, and J. Perez-Peraza 49, 151

Low-Energy Particle Events Associated with Sector Boundaries

Z. Švestka, L. Fritzová-Švestková, J. T. Nolte, H. W. Dodson-Prince, and E. R. Hedeman 50, 491

Solar Particle Propagation from 1 to 5 AU

R. D. Zwickl and W. R. Webber 54, 457

Prompt Solar Proton Events and Coronal Mass Ejections

S. W. Kahler, E. Hildner, and M. A. I. Van Hollebeke 57, 429

On Proton and Electron Acceleration by Shock Waves during Large Solar Flares

V. M. Gubchenko and V. V. Zaitsev 63, 337

Is There a Limit on Solar Flare Proton Fluxes?

D. D. Barbosa 67, 181

The Response of Ozone to Solar Activity Variations: A Review

Gerald M. Keating 74, 321

Prompt Injection of Relativistic Protons from the September 1, 1971 Solar Flare

Edward W. Cliver 75, 341

The Evolution and the Secondary Maximum of the Green Line Intensity

J. Xanthakis, B. Petropoulos, and H. Mavromichalaki 76, 181

A Large Proton Event Associated with Solar Filament Activity

B. Sanahuja, V. Domingo, K.-P. Wenzel, J. A. Joselyn, and E. Keppler 84, 321

Characteristics of Gamma-Ray Line Flares as Observed in Hard X-Ray Emissions and Other Phenomena

T. Bai, B. R. Dennis, A. L. Kiplinger, L. E. Orwig, and K. J. Frost 86, 409

On the Storage of High-Energy Protons in the Solar Corona: The Cyclotron Instability

B. I. Meerson and I. V. Rogachevskii 87, 337

Mean Free Paths and Diffusion Coefficients for Energetic Protons at Small Helioidistances Calculated Using Helios 1 and 2 Data

J. F. Valdés Galicia, X. Moussas, J. J. Quenby, F. M. Neubauer, and R. Schween 91, 399

Pulsations of Type IV Radio Bursts as an Indicator of Protonability of Solar Flares

V. V. Zaitsev, A. V. Stepanov, and G. P. Chernov 93, 363

Multip spacecraft Observations of the East-West Asymmetry of Solar Energetic Storm Particle Events

E. T. Sarris and S. M. Krimigis 96, 413

On the Relation between Solar-Flare Gamma-Ray Emission and Proton Escape into Interplanetary Space

V. V. Zaitsev and A. V. Stepanov 99, 313

Ephemeris

The Use of Solar Eclipse Timings to Compare the Reference Systems of Newcomb's Tables of the Sun and of the Improved Lunar Ephemeris

R. L. Duncombe, R. F. Haupt, and J. S. Duncombe 21, 260

Differential Rotation, Meridional and Random Motions of the Solar Ca⁺ Network

E. H. Schröter and H. Wöhl 42, 3

Apparent Yearly Precession of the Sun

A. Kubičela and M. Karabin 54, 505

Extreme Ultraviolet (EUV) Bursts

Extreme Ultraviolet Flashes of Solar Flares Observed via Sudden Frequency Deviations: Experimental Results

Richard F. Donnelly 20, 188

The Inter-Relationship of Hard X-Ray and EUV Bursts during Solar Flares

A. Gordon Emslie, John C. Brown, and Richard F. Donnelly 57, 175

The Characteristics of Impulsive Solar EUV Bursts

A. Gordon Emslie and Robert W. Noyes 57, 373

The EUV Continuum Emission (1400-1960 Å) in a Solar Flare Observed from Skylab

Chung-Chieh Cheng and O. Kjeldseth Moe 59, 361

Indirect Estimation of Energy Disposition by Non-Thermal Electrons in Solar Flares

H. S. Hudson; R. C. Canfield, and S. R. Kane 60, 137

Impulsive EUV Bursts Observed in CIV with OSO-8

R. Grant Athay, O. R. White, B. W. Lites, and E. C. Bruner, Jr. 66, 357

OSO-8 Observations of the Impulsive Phase of Solar Flares in the Transition-Zone and Corona

Bruce W. Lites, E. C. Bruner, Jr., and C. J. Wolfson 69, 373

Are EUV Bursts Members of the Flare Family?

R. Grant Athay 93, 123

Faculae, Chromospheric (*see Chromosphere, Network*)

Faculae, Models

On Temperature in Line-Gap Regions

U. Grossmann-Doerth 13, 287

On the Physical Conditions in the Photospheric Network: An Improved Model of Solar Faculae

Gary A. Chapman 14, 315

Facular Models and the Sunspot Energy Deficit

P. R. Wilson 21, 101

Some Remarks on Line Weakenings in Photospheric Faculae

B. Caccin, R. Falciani, and A. Donati-Falchi 35, 41

A Facular Model Based on the Wings of the Ca II Lines

Richard A. Shine and Jeffrey L. Linsky 37, 145

Physical Properties of Solar Chromospheric Plages. II: Chromospheric Plage Models

Richard A. Shine and Jeffrey L. Linsky 39, 49

A Model of the Supergranulation Network and of Active-Region Plages

J. O. Stenflo 42, 79

Temperature Variation with Latitude in the Upper Solar Photosphere: Relevance to Solar Oblateness Measurements and Facular Models

Andrew P. Ingersoll and Gary A. Chapman 42, 279

A Model of Photospheric Faculae Deduced from White Light High Resolution Pictures

R. Muller 45, 105

The EUV Chromospheric Network in the Quiet Sun

E. M. Reeves 46, 53 *Errata/Replacement Figure: Fig. 10 - 53, 547*

Pressure Equilibrium and Energy Balance of Small Photospheric Fluxtubes

H. C. Spruit 50, 269

The Effects of Partial Redistribution on Facular K Line Profiles

J. N. Heasley, F. Kneer, and G. A. Chapman 52, 309

On a Possible Mechanism of Solar Faculae Heating

S. I. Vainstein, G. V. Kuklin, and V. P. Maksimov 53, 15

Heat Flow near Obstacles in the Solar Convection Zone

H. C. Spruit 55, 3

Physical Properties of Solar Chromospheric Plages. III. Models Based on Ca II and Mg II Observations

Walter L. Kelch and Jeffrey L. Linsky 58, 37

Photospheric Network from Study of Manganese Lines

G. Elste and R. G. Teske 59, 275

High Resolution Photographs of the Sun near 200 nm

M. Hersé 63, 35

Center to Limb Variation of the Intensity of the Photospheric Faculae

Tadashi Hirayama and Fumio Moriyama 63, 251

Mass Flow and the Validity of Ionization Equilibrium on the Sun

JoAnn Joselyn, R. H. Munro, and T. E. Holzer 64, 57

Propagation of Magnetically Guided Acoustic Shocks in the Solar Chromosphere

P. Foukal and M. Smart 69, 15

Coupling Equations for a Flow-Wave Field Used to Faculae Heating

Li Xiaoqing and Song Mutao 75, 83

Structure and Physics of Solar Faculae. I: Principles and Observational Procedures from Ground-Based Instruments and OSO-8 Satellite

S. Dumont, Z. Mouradian, and J.-C. Pecker 78, 71

Structure and Physics of Solar Faculae. III: The Densities in the Chromosphere-Corona Transition Zone

S. Dumont, Z. Mouradian, J.-C. Pecker, J.-C. Vial, and E. Chipman 83, 27

Network to Cell Contrast at Microwaves

F. Chiuderi Drago, M. R. Kundu, and E. J. Schmahl 85, 237

Center-to-Limb Variations in the Two-Dimensional Contrast of Photospheric Faculae

G. A. Chapman and T. W. Gingell 91, 243

Magnetic Flux Tube in a Stratified Atmosphere under the Influence of the Vertical Magnetic Field

Vladimir A. Osherovich 94, 207

The Influence of Faculae on Sunspot Heat Blocking

Wei-Hwan Chiang and Peter Foukal 97, 9

Faculae, Photospheric (*see Photosphere, Network*)

Filaments (*see Prominences*)

Filigree (*see Intergranular Region and Subgranular Structures*)

Flares

Detailed Analysis of Flares, Magnetic Fields and Activity in the Sunspot Group of Sept. 13-26, 1963

Harold Zirin and Susan Werner 1, 66

A Peculiar Sodium 'Flare' on the Sun

E. A. Gurtovenko 1, 389

L'éruption d'importance 2 du 4 octobre 1965

G. Banos 1, 397

Electron Density in Flares. II: Results of Measurements

L. Fritzová-Švestková and Z Švestka 2, 87

Comments on a Flare of September 20, 1966

Einar Tandberg-Hanssen 2, 98

Flare Positions Relative to Photospheric Magnetic Fields

Sara F. Smith and Harry E. Ramsey 2, 158

A Study of Energetic Solar Flare X-Rays

R. L. Arnoldy, S. R. Kane, and J. R. Winckler 2, 171

A Phenomenological Model for *Disparitions Brusques* Followed by Flarelike Chromospheric Brightenings.

II: Observations in Active Regions

Charles L. Hyder 2, 267 *Rectification* 2, 505 and *Corrigenda* 3, 624

Magnetic Fields and Flares in the Region CMP, 20 September 1963

G. E. Moreton and A. B. Severny 3, 282

On Long-Term Forecasts of Proton Flares

Zdeněk Švestka 4, 18

Propagation of Hydromagnetic Disturbances in the Solar Corona and Moreton's Wave Phenomenon

Yutaka Uchida 4, 30

The Proton Flare of August 28, 1966

Helen W. Dodson and E. Ruth Hedeman 4, 229

Solar Flare Injection and Propagation of Low-Energy Protons and Electrons in the Event of 7-9 July, 1966

R. P. Lin, S. W. Kahler, and E. C. Roelof 4, 338

High-Resolution Photography of the Solar Chromosphere. III: The Fine Structure of a Class I Flare

R. E. Loughhead 4, 422

Cape Lyot H α -Heliograph Results. An Analysis of Flare Activity 1958-65

John H. Reid 5, 207

The Initial Development of Solar Flares

J. F. Vesecky and A. J. Meadows 6, 80

The Solar Flares of August 28 and 30, 1966

Harold Zirin and D. Russo Lackner 6, 86

'Bartels' Active Longitudes', Sector Boundaries and Flare Activity

V. Bumba and V. N. Obridko 6, 104

On the Relation between Sunspot Area Changes and Flare Occurrences

K. R. Sivaraman 6, 152

Reply to K. R. Sivaraman

Robert Howard 6, 154

Magnetic Fields in Flares and Active Prominences. I: The Flares in Active Region McMath No. 8818, May 21 and 23, 1967

J. McKim Malville and E. Tandberg-Hanssen 6, 278

Large-Scale Mutual Relations of Spot Groups in Proton Complex

L. Křivský and V. Obridko 6, 418

On the Problem of Active Longitudes of Sunspots and Flares

Ju. I. Vitinskij **7**, 210

A Comparison of Energetic Storm Protons to Halo Protons

S. W. Kahler **8**, 166

On the Localization, Size and Structure of the Regions of the X-Ray Flares on the Sun

I. L. Beigman, Yu. I. Grineva, S. L. Mandel'stam, L. A. Vainstein, and I. A. Žitnik **9**, 160

Solar Circumstances at the Time of the Cosmic Ray Increase on January 28, 1967

Helen W. Dodson and E. Ruth Hedeman **9**, 278

Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461

(*Invited Review Paper*)

Z. Švestka and P. Simon **10**, 3

On a Relation between the Indices of Solar Activity in the Photosphere and the Corona

John Xanthakis **10**, 168

An Outstanding Lyman-Alpha Event

B. C. Monsignori Fossi, G. Poletto, and G. L. Tagliaferri **10**, 196

Isophotal Photometry and Morphological Changes in the Flares

M. Dizer **10**, 416

Radio Evidence of Directive Shock-Wave Propagation in the Solar Corona

K. Kai **10**, 460

A Solar Flare Videometer

Paul E. Tallent **11**, 263

An Example of Radio and Optical Homologous Flares

K. P. White, III and T. J. Janssens **11**, 291

Description of Mass Motions and Brightenings in a Class 2b Flare, August 8, 1968

T. J. Janssens and K. P. White, III **11**, 299

The Flares of July 6 and 8, 1968

T. Fortini and M. Torelli **11**, 425

Evidence of Type II and Type IV Solar Radio Emission from a Common Flare-Induced Shock Wave

R. T. Stewart and K. V. Sheridan **12**, 229

Sympathetic Radiobursts at mm-Wavelengths

G. Feix **13**, 227

Major H α Flares in Centers of Activity with Very Small or No Spots

Helen W. Dodson and E. Ruth Hedeman **13**, 401

The Phase of Particle Acceleration in the Flare Development

Z. Švestka **13**, 471

Solar Activity at $\lambda = 15.8$ mm (19 GHz) during the Period 27 October-4 November 1968 and Its Relation to Proton Events

D. L. Croom and R. J. Powell **14**, 221

Homologous Microwave Bursts and Associated Solar Flares

U. V. Gopala Rao **14**, 389

White Light Events as Photospheric Flares

Kazutoshi Najita and Frank Q. Orrall **15**, 176

Preliminary Observations of Coronal Magnetic Fields before and after Solar Proton Events

Jesusa Valdez and Martin D. Altschuler **15**, 446

The Relation of Energetic Solar X-Rays ($h\nu > 60$ keV) and High Frequency Microwaves Deduced from the Periodic Bursts of August 8, 1968 Flare

George K. Parks and John R. Winckler **16**, 186

Unusual Rotation of a Sunspot 30 September to 8 October 1969

Richard A. Miller **16**, 373

The Explosive Phase of Solar Flares

Karen L. Harvey **16**, 423

Isodensitometric Analysis of Flare on 1966, March 20

F. Mazzucconi and A. Righini **17**, 174

Soft Solar X-Rays and Solar Activity. IV: Some Evidence for the Altitude of X-Ray Source Volumes in Solar Flares

Richard G. Teske **17**, 181

- Longitudinal Distribution of PCA Sources on the Sun
L. Fritzová-Švestková and Z. Švestka 17, 212
- Evidence for the Photospheric Origin of the Flare Optical Continuum
Marcos E. Machado 17, 389
- Longitude Distribution of Solar Flares
P. C. W. Fung, P. A. Sturrock, P. Switzer, and G. Van Hoven 18, 90
- The Helium-Enriched Interplanetary Plasma from the Proton Flares of August/September, 1966
J. Hirshberg, J. R. Asbridge, and D. E. Robbins 18, 313
- Solar Microwave Bursts as Indicators of the Occurrence of Solar Proton Emission
David L. Croom 19, 152
- Forecasting the Intensity of Solar Proton Events from the Time Characteristics of Solar Microwave Bursts
David L. Croom 19, 171
- On the Flux of Neutrons from Flares
Z. Švestka 19, 202
- On the Flux of Gamma Rays from Solar Flares
L. D. de Feiter 19, 207
- Extreme Ultraviolet Flashes of Solar Flares Observed via Sudden Frequency Deviations: Experimental Results
Richard F. Donnelly 20, 188
- Extreme-Ultraviolet Observations of a Surge
Robert P. Kirshner and Robert W. Noyes 20, 428
- Remark on Rotational Motions in Flares and Prominences
Yngve Öhman 23, 134
- Note on the Characteristics of Sunspot Groups which Produce Solar Proton Flares
Kunitomo Sakurai 23, 142
- Comments on Filament-Disintegration and Its Relation to Other Aspects of Solar Activity
Helen W. Dodson, E. Ruth Hedeman, and Marta Rovira de Miceli 23, 360
- Properties of White Light Flares. I: Association with $H\alpha$ Flares and Sudden Frequency Deviations
Patrick S. McIntosh and Richard F. Donnelly 23, 444
- Solar Flares in the Extreme Ultraviolet. I: The Observations
A. T. Wood, Jr., R. W. Noyes, A. K. Dupree, M. C. E. Huber, W. H. Parkinson, E. M. Reeves, and G. L. Withbroe 24, 169
- Thick-Target Processes and White-Light Flares
H. S. Hudson 24, 414
- Some Aspects of Flare Properties versus Magnetic Boundary Morphology
Stephen W. Prata 25, 136
- Analysis of Some Aspects of 25 Chromospheric Events. I: Reduction of the Optical Data
R. Falciani, M. Rigutti, and C. J. Macris 26, 108
- Analysis of Some Aspects of 25 Chromospheric Events. II: Discussion of the Optical Data
R. Falciani and M. Rigutti 26, 114
- X-Radiation ($E > 10$ keV), $H\alpha$ and Microwave Emission during the Impulsive Phase of Solar Flares
Joan A. Vorpahl 26, 397
- Search for Weak White-Light Flares by Time-Wise Photographic Cancellation
Yutaka Uchida and Hugh Hudson 26, 414
- The Magnetic Configuration of the November 18, 1968 Loop Prominence System
J.-René Roy 26, 418
- The Time-Latitude Distribution of Solar Flares Accompanied by Type IV Radio Bursts during the Period 1956 to 1969
Michael D. Papagiannis, Christos S. Zerefos, and Christos C. Repapis 27, 208
- On the S- and B-Components of Solar Radio and X-Emission and Their Relationships to Energetic Solar Events
A. Krüger 27, 217
- Flares Associated with EFR's (Emerging Flux Regions)
Joan A. Vorpahl 28, 115
- Suprathermal Plasma Nodules and Their Relation to Solar Flares
L. D. de Feiter and C. de Jager 28, 183
- Contribution to the Observation of the Photospheric Oscillations
E. Fossat and G. Ricort 28, 311

- Flare-Produced Coronal MHD-Fast-Mode Wavefronts and Moreton's Wave Phenomenon
Yutaka Uchida, Martin D. Altschuler, and Gordon Newkirk, Jr. **28**, 495
- Some Notes on Flare Patrol
R. Falciani and M. Rigutti **28**, 539
- A Comment on the Flare Activity in August 1972
L. Fritzová-Švestková and Z. Švestka **29**, 417
- Multidirectional Scanning of Active Regions with a Slit-Jaw Spectrograph and a Solar Chromatograph. I: Description of the Method and Some Preliminary Results for the Flare Event of August 4th 1972
U. Kusoffsky and G. Pålsgård **30**, 121
- The Limb Flare of August 11, 1972
M. Waldmeier **30**, 129
- Solar Flare Observations from a Pair of Matched Instruments
Fred Ward, Ralph F. Carnevale, and Richard G. Hendl **31**, 131
- Heliographic Longitude Distribution of the Flares Associated with Type III Bursts Observed at Kilometric Wavelengths
Hector Alvarez, Fred T. Haddock, and William H. Potter **31**, 493
- The Flares of August 1972
Harold Zirin and Katsuo Tanaka **32**, 173
- Spatial Distribution of Soft X-Ray and EUV Emission Associated with a Chromospheric Flare of Importance 1B on August 2, 1972
W. M. Neupert, R. J. Thomas, and R. D. Chapman **34**, 349
- Correlation of a Flare-Wave and Type II Burst
Karen L. Harvey, Sara F. Martin, and Anthony C. Riddle **36**, 151
- Spectrograph, Filtergraph and Magnetograph Observations of the Two-Ribbon Flare of 29 July, 1973
A. G. Michalitsanos and P. Kupferman **36**, 403
- The Alfvén-Wave Theory of Solar Flares
J. H. Piddington **38**, 465
- Analysis of the August 7, 1972 White Light Flare: Its Spectrum and Vertical Structure
Marcos E. Machado and David M. Rust **38**, 499
- Visual and Photographic White Light Flare Observations of 4 July 1974
W. A. Feibelman **39**, 409
- Behavior of the Flare-Produced Coronal MHD Wavefront and the Occurrence of Type II Radio Bursts
Yutaka Uchida **39**, 431
- The Microwave Structure of Coronal Condensations and Its Relation to Proton Flares
Haruo Tanaka and Shinzo Enomé **40**, 123
- Phenomenology of the Subflare: A Synthesis of CINOF
C. de Jager **40**, 133
- Analysis of the August 7, 1972 White Light Flare: Light Curves and Correlation with Hard X-Rays
David M. Rust and Frank Hegwer **40**, 141
- Investigation of Five White Light Flares
Yu. M. Slonim and Z. B. Korobova **40**, 397
- Short-Lived Flare-Like Phenomena in the Quiet Chromosphere
David L. Glackin **41**, 115
- The Relationship between Solar Flares and Solar Sector Boundaries
Phil H. Dittmer **41**, 227
- Spectral Features to be Expected from Rotational and Expansional Motions in Fine Solar Structures
B. Rompolt **41**, 329
- EUV Emission, Filament Activation and Magnetic Fields in a Slow-Rise Flare
David M. Rust, Y. Nakagawa, and W. M. Neupert **41**, 397
- White Light Flares: Protons or Electrons?
Paolo Cortellessa and Constantinos Paizis **42**, 421
- The Work of the Diode Array: He 10830 Observations of Spicules and Subflares
David M. Rust and Charles A. Bridges III **43**, 129
- The Solar-Flare Infrared Continuum: Observational Techniques and Upper Limits
H. S. Hudson **45**, 69
- Observations of the Structure and Evolution of Solar Flares with a Soft X-Ray Telescope
J. A. Vorpahl, E. G. Gibson, P. B. Landecker, D. L. McKenzie, and J. H. Underwood **45**, 199

- Spatial Structure and Temporal Development of a Solar X-Ray Flare Observed from Skylab on June 15, 1973
R. Pallavicini, G. S. Vaiana, S. W. Kahler, and A. S. Krieger 45, 411
- Report on the Solar Physics-Plasma Physics Workshop, held at Stanford University, 17-20 September 1974
P. A. Sturrock, P. J. Baum, J. M. Beckers, C. E. Newman, E. R. Priest, H. Rosenberg, D. F. Smith, and D. G. Wentzel (eds.) 46, 411
- Flare Build-Up Study, Proceedings of the Study Workshop, held at Falmouth, Cape Cod, Mass., U.S.A., 8-11 September 1975, *Table of Contents*
47, 5
- Flare Build-Up Study, Proceedings of the Study Workshop, held at Falmouth, Cape Cod, Mass., U.S.A., 8-11 September 1975, *Preface*
Zdeněk Švestka 47, 9
- The Aims of the Flare Build-Up Study, *Introduction*
L. D. de Feiter 47, 15
- Spectroscopic Far Ultraviolet Observations of Transition Zone Instabilities and Their Possible Role in a Pre-Flare Energy Build-Up
G. E. Brueckner, N. P. Patterson, and V. E. Scherrer 47, 127 *Erratum/Replacement Figures: Figs. 1, 2, 3, 5, 10, 11 - 53, 547*
- Energy Storage and Deposition in a Solar Flare
J. A. Vorpahl 47, 147
- Preflare X-Ray Morphology of Active Regions Observed with the AS&E Telescope on Skylab
S. W. Kahler and B. J. Buratti 47, 157
- The Location of the Site of Energy Release in an X-Ray Flare-Like Brightening (*Extended abstract*)
R. D. Petraso and A. S. Krieger 47, 167
- Implications for Flare Build-Up and Heating from Observations Made by OSO-7 (*Extended abstract*)
W. M. Neupert 47, 217
- Thermal Evolution of Current Sheets and Flash Phase of Solar Flares
J. Heyvaerts and E. R. Priest 47, 223
- Evolution of Fibrils with Special Reference to Flare Activity
Katsuo Tanaka 47, 247
- Motion of Sunspot Magnetic Fields and Its Relation to Solar Flares
Kunitomo Sakurai 47, 261
- Some Comments on Flares after Many Years of Observation
H. W. Dodson and E. R. Hedeman 47, 267
- Pre-Flare Association of Magnetic Fields and Millimeter-Wave Radio Emission
E. B. Mayfield and K. P. White, III 47, 277
- The Onset of Flares at the Meter Wavelengths
S. F. Smerd and G. A. Dulk 47, 285
- Hard X-Ray and Microwave Observations of a Sympathetic Flare (*Title only*)
K. Ohki 47, 305
- Laboratory Solar Flare Experiments
P. J. Baum and A. Bratenahl 47, 331
- Solar Flares and Magnetospheric Substorms (*Invited Summary*)
M. Kuperus 47, 361
- What Should be Observed on the Sun (*Invited Summary*)
Z. Švestka 47, 375
- Prospectus for the Solar Maximum Year (*Invited Report*)
H. Zirin and K. Tanaka 47, 385
- The Relevance of Solar Flares to Astrophysics (*Invited Paper*)
P. A. Sturrock and J. W. Knight 47, 401
- Brief Report about the Flare Build-Up Study (FBS) Workshop and Recommendations Adopted
E. Hones 47, 431
- On the Occurrence of Sympathetic Flares
L. Fritzová-Švestková, R. C. Chase, and Z. Švestka 48, 275
- On the Origin of the Flare Optical Continuum
Marcos E. Machado 49, 91
- Solar Flares and Plasma Instabilities: Observations, Mechanisms and Experiments (*Invited Review Paper*)
Gerard Van Hoven 49, 95

The Spatial Structure of a Solar Flare in Soft X-Rays and Centimetric Wavelengths

R. Pallavicini and G. S. Vaiana **49**, 297

Active Region Flare Rates and 8.6 mm Brightness Temperatures

George L. Withbroe and Jorge E. Vernazza **50**, 127

Mass Motions in a Heated Flare Filament

I. J. D. Craig and A. N. McClymont **50**, 133

Non-Thermal Processes in Large Solar Flares

R. P. Lin and H. S. Hudson **50**, 153

The Quantitative Properties of Three Soft X-Ray Flare Kernels Observed with the AS&E X-Ray Telescope on Skylab

S. W. Kahler, R. D. Petrasso, and S. R. Kane **50**, 179

The North-South Distribution of Major Solar Flare Events, Sunspot Magnetic Classes and Sunspot Areas (1955-1974)

J.-René Roy **52**, 53

Transequatorial Loops Interconnecting McMath Regions 12472 and 12474

Z. Švestka, A. S. Krieger, R. C. Chase, and R. Howard **52**, 69

The Production of Lithium in the Solar Chromosphere and Photosphere during White Light Flares

Lennart Hultqvist **52**, 101

The Enhancement of Scattered $\text{L}\alpha$ Radiation in the Geocorona during the Solar Flares of August 1972

D. H. Morgan **52**, 463

Observations of Limb Flares with a Soft X-Ray Telescope

Edward G. Gibson **53**, 123

Proceedings of the Meeting 'How Can Flares Be Understood?' held during the 16th General Assembly of the IAU in Grenoble, France, on 27 August 1976, *Table of Contents*

53, 215

Proceedings of the Meeting 'How Can Flares Be Understood?' held during the 16th General Assembly of the IAU in Grenoble, France, on 27 August 1976, *Preface*

Zdeněk Švestka **53**, 217

Introductory Talk, Magnetic Configurations and Instabilities in Flares

Z. Švestka **53**, 221

How Flares Can Be Understood

A. B. Severny **53**, 233

The Role of Changing Magnetic Fields in Flare Formation, Discussion

D. M. Rust **53**, 235

The Prime Energy Release and Flare Development

G. E. Brueckner **53**, 269

Comments Regarding Energy Release and Transfer in Solar Flares

J. A. Vorpahl **53**, 271

Effects of Soft X-Ray Flux on the Lower Solar Atmosphere in Flares

J. C. Henoux and Y. Nakagawa **53**, 279

The Primary Energy Release and Subsequent Flare Development, Discussion 1

Z. Švestka **53**, 281

Comments on Salyut-4 Observations of Active Regions on the Sun

A. B. Severny **53**, 285

Photometric Studies of the Starting Phase of Flares

R. Falciani **53**, 287

The Primary Energy Release and Subsequent Flare Development, Discussion 2

Z. Švestka **53**, 291

Effects of Electrons versus Protons in the Solar Atmosphere

H. S. Hudson **53**, 295

Thermal Effects in Flares (*Title Only*)

S. A. Colgate **53**, 297

An Overview of the Energy-Flow Problem in Flares (*Concluding Remarks*)

P. A. Sturrock **53**, 299

Comparison between Some $\text{H}\alpha$ and X-Ray Flares

R. Falciani, M. Giordano, M. Rigutti, and G. Roberti **54**, 169

- Soft X-Ray Observations of Large-Scale Coronal Active Region Brightenings
David M. Rust and David F. Webb **54**, 403
- Ultraviolet Brightenings in Active Regions as Observed from OSO-8
B. W. Lites and E. R. Hansen **55**, 347
- Evolution of the High-Temperature Plasma in the 15 June 1973 Flare
Chung-Chieh Cheng **55**, 413
- Multiple Loop Activations and Continuous Energy Release in the Solar Flare of June 15, 1973
K. G. Widing and K. P. Dere **55**, 431
- The Decay of Coronal Loops Brightened by Flares and Transients
Allen S. Krieger **56**, 107
- Analysis of the Emission Line Spectra of a Solar Flare Observed from Skylab
Chung-Chieh Cheng **56**, 205
- Threshold Effect in Second-Stage Acceleration
H. S. Hudson **57**, 237
- The Characteristics of Impulsive Solar EUV Bursts
A. Gordon Emslie and Robert W. Noyes **57**, 373
- H α , Hard X-Ray, and Microwave Emissions in the Impulsive Phase of Solar Flares
Donald F. Neidig, Jr. **57**, 385
- Studies of Solar Flares Using Optical, X-Ray and Radio Data
H. Zirin **58**, 95
- Lyman Continuum Observations of Solar Flares
Marcos E. Machado and Robert W. Noyes **59**, 129
- A Loop Prominence System Observed on May 24, 1972
Muammer Dizer **59**, 357
- The EUV Continuum Emission (1400-1960 Å) in a Solar Flare Observed from Skylab
Chung-Chieh Cheng and O. Kjeldseth Moe **59**, 361
- Umbral Flares
Frances Tang **60**, 119
- The Pre-Onset Morphology of the 5 September 1973 Flare
E. J. Schmahl, C. V. Solodyna, J. B. Smith, Jr., and C. C. Cheng **60**, 323
- High Resolution Observations of Fibril Changes in a Small Flare
Donald F. Neidig **61**, 121
- The Association of Coronal Mass Ejection Transients with Other Forms of Solar Activity
R. H. Munro, J. T. Gosling, E. Hildner, R. M. MacQueen, A. I. Poland, and C. L. Ross **61**, 201
- Preflare Characteristics of Active Regions Observed in Soft X-Rays
S. W. Kahler **62**, 347
- Slowly Moving Disturbances in the X-Ray Corona
David M. Rust and Z. Švestka **63**, 279
- Transient Brightenings of Interconnecting Loops. Morphology of the Sudden Brightenings
Z. Švestka and Robert Howad **63**, 297
- Solar Flare X-Ray Spectra. I: Wavelengths of Fe XXIV-XXV Lines in the Regions $\lambda = 1.85\text{--}1.87$ Å
V. V. Korneev, V. V. Krutov, S. L. Mandelstam, A. M. Urnov, I. A. Zhitnik, E. Ya. Kononov, B. Sylwester, and J. Sylwester **63**, 319
- On the Seats of Elementary Flare Bursts
Cornelis de Jager **64**, 135
- Study of the Post-Flare Loops on 29 July 1973. III: Dynamics of the H α Loops
Sara F. Martin **64**, 165
- An Umbral Brightening Associated with a Two-Ribbon Flare
M. Vazquez and F. Herrera **64**, 329
- Energy Release in Solar Flares
A. Gordon Emslie and David M. Rust **65**, 271
- Densities and Mass Motions in Transition-Zone Plasmas in Solar Flares Observed from Skylab
Chung-Chieh-Cheng **65**, 283
- X-Rays, Filament Activity and Flare Prediction
J. M. Mosher and L. W. Acton **66**, 105
- Solar Flares and the Cosmic Ray Intensity
C. J. Hatton **66**, 159

On the Type of Spectra of S-Component Sources and Their Correlation with Flare Occurrence

P. Steffen **67**, 89

On the Distribution of Magnitudes of Solar Microwave Events

A. D. Fokker **67**, 101

The Flare of September 7, 1973: A Typical Example of a Newly Recognized Class of Solar Transients

R. Pallavicini and G. S. Vaiana **67**, 127

Na-Light Flare Observations: McMath 13043 - July 1974

A. Cacciani, T. Fortini, and M. Torelli **67**, 311

Motions in the Solar Atmosphere Associated with the White Light Flare of 11 July 1978

L. Dezsö, Lidia Gesztelyi, L. Kondás, Ágnes Kovács, and S. Rostás **67**, 317

Observed $L\alpha$ Profiles for Two Solar Flares: 14:12 UT 15 June, 1973 and 23:16 UT 21 January, 1974

Richard C. Canfield and M. E. VanHoosier **67**, 339

A Classification Scheme for Solar Flare Models

D. S. Spicer and J. C. Brown **67**, 385

Preflare Conditions, Changes and Events (*Invited Review Paper*)

Sara F. Martin **68**, 217

On Doppler Shifts of the Fe XXV Ion Resonance Line in Solar Flare X-Ray Spectra

V. V. Korneev, I. A. Zhitnik, S. L. Mandelstam, and A. M. Urnov **68**, 391

The Physical Relationship between Flares and Surges Observed in the Extreme Ultraviolet

E. J. Schmahl **69**, 135

OSO-8 Observations of the Impulsive Phase of Solar Flares in the Transition-Zone and Corona

Bruce W. Lites, E. C. Bruner, Jr., and C. J. Wolfson **69**, 373

A Twin Flare in Symmetrical Sunspot Groups

M. Waldmeier **70**, 93

Oscillations of a Loop Prominence Preceding a Limb Flare

J. McKim Malville and Mark Schindler **70**, 115

X-Ray and $H\alpha$ Observations of a Filament-Disappearance Flare: An Empirical Analysis of the Magnetic Field Configuration

S. W. Kahler, D. F. Webb, and R. L. Moore **70**, 335

$H\alpha$ Flare Spectra

Stephen A. Schoolman and Eric D. Ganz **70**, 363

Observations of an Unusual Pair of Homologous Flares on March 17, 1970

Edward W. Cliver and Fred L. Wefer **71**, 39

The Eruption of Active Region Filaments and Its Relation to the Triggering of a Solar Flare

M. Kuperus and W. van Tend **71**, 125

Transition-Zone Observations of Rapid Flare Events as Observed by OSO-8

Bruce W. Lites **71**, 329

The Development of X-Ray Flare Onsets near Active Region Filaments

S. W. Kahler **71**, 337

The Optical Continuum of Solar and Stellar Flares

M. A. Livshits, O. G. Badalyan, A. G. Kosovichev, and M. M. Katsova **73**, 269

Tropospheric Effects of Variable Solar Activity

C. J. E. Schuurmans **74**, 417

Observations of a Post-Flare Radio Burst in X-Rays

Z. Švestka, R. T. Stewart, P. Hoyng, W. van Tend, L. W. Acton, A. H. Gabriel, C. G. Rapley, A. Boelee, E. C. Bruner, C. de Jager, H. LaFleur, G. Nelson, G. M. Simnett, H. F. van Beek, and W. J. Wagner **75**, 305

Gamma Radiation and Photospheric White-Light Flare Continuum

H. S. Hudson and B. N. Dwivedi **76**, 45

Soft X-Ray Emission from Active Regions Shortly before Solar Flares

C. J. Wolfson **76**, 377

Remote Flare Brightenings and Type III Reverse Slope Bursts

Frances Tang and R. L. Moore **77**, 263

Progressive Brightenings Observed in the Wing of $H\alpha$ Line

I. Kawaguchi, H. Kurokawa, Y. Funakoshi, and Y. Nakai **78**, 101

Impulsive Phase of Flares in Soft X-Ray Emission

E. Antonucci, A. H. Gabriel, L. W. Acton, J. L. Culhane, J. G. Doyle, J. W. Leibacher, M. E. Machado, L. E. Orwig, and C. G. Rapley **78**, 107

- The Impulsive and Gradual Phases of a Solar Limb Flare as Observed from the Solar Maximum Mission Satellite
A. I. Poland, M. E. Machado, C. J. Wolfson, K. J. Frost, B. E. Woodgate, R. A. Shine, P. J. Kenny, C. C. Cheng, E. A. Tandberg-Hanssen, E. C. Bruner, and W. Henze **78**, 201
- The Flare of December 17, 1980 Observed with High Time Resolution by a Digital CCD Camera
N. Kämpfer and W. Schöchlin **78**, 215
- On the Color of the 26 February 1981 White Light Flare
Donald F. Neidig and Ronald O. Beck **78**, 225
- Study of the Post-Flare Loops on 29 July 1973. IV: Revision of T and n_e Values and Comparison with the Flare of 21 May 1980
Z. Švestka, H. W. Dodson-Prince, S. F. Martin, O. C. Mohler, R. L. Moore, J. T. Nolte, and R. D. Petrasso **78**, 271
- 2.2 MeV Gamma-Ray Line Observed during Two SN Solar Flares
K. R. Rao, I. M. Martin, J. O. D. Jardim, and U. B. Jayanthi **79**, 121
- A Continuous Spectrum of a White-Light Flare
Eijiro Hiei **80**, 113
- Dynamics of Post-Flare Ejections and Magnetic Loop Geometry
Pierre Mein and Nicole Mein **80**, 161
- Excitation of High- m Tearing Modes at the Solar Flare Site
V. Krishan **80**, 313
- A Study of the Modulating Effect of Solar Flares on the Cosmic Ray Intensity Using Time Series Analysis
G. A. Bowie and C. J. Hatton **80**, 351
- X-Ray Imaging of Three Flares during the Impulsive Phase
André Duijveman, Peter Hoyng, and Marcos E. Machado **81**, 137
- Thermal and Nonthermal Phenomena in Solar Flare Loops at 20 cm Wavelength and in X-Rays
E. J. Schmahl, M. R. Kundu, P. B. Landecker, and D. L. McKenzie **83**, 3
- Flare Asymmetry as Seen in Offband H α Filtergrams
Frances Tang **83**, 15
- Optical Counterpart of the Radio Event Accompanying the 3B Flare of 13 May 1981
R. E. Loughhead, Wang Jia-Long, and R. A. Duncan **83**, 257 *Errata* **88**, 391
- X-Ray and Radio Emissions in the Early Stages of Solar Flares
A. O. Benz, C. H. Barrow, B. R. Dennis, M. Pick, A. Raoult, and G. Simnett **83**, 267
- The Queens' Flare: Its Structure and Development; Precursors, Pre-Flare Brightenings, and Aftermaths
Cornelius de Jager, Marcos E. Machado, Aert Schadee, Keith T. Strong, Zdeněk Švestka, Bruce E. Woodgate, and W. van Tend **84**, 205
- The Structure and Evolution of a Solar Flare as Observed in 3.5-30 keV X-Rays
R. A. Harrison, G. M. Simnett, P. Hoyng, H. LaFleur, and H. F. Van Beek **84**, 237
- Spectral Analysis of the Optical Continuum in the 24 April 1981 Flare
Donald F. Neidig **85**, 285
- Direct Measurements of the Gradual Extreme Ultraviolet Emission from Large Solar Flares
D. M. Horan, R. W. Kreplin, and K. P. Dere **85**, 303
- The US-Japan Seminar on 'Recent Advances in the Understanding of Solar Flares' held at Komaba, Tokyo, 5-8 October 1982, *Table of Contents*
86, v
- The US-Japan Seminar on 'Recent Advances in the Understanding of Solar Flares' held at Komaba, Tokyo, 5-8 October 1982, *Foreward*
S. R. Kane, Y. Uchida, K. Tanaka, and H. S. Hudson **86**, ix
- Development of Flare Morphology in X-Rays, and the Flare Scenario
C. de Jager **86**, 21
- Solar Flare X-Ray Spectra from the P78-1 Spacecraft
G. A. Doschek **86**, 49
- Observation of Chromospheric Evaporation during the Solar Maximum Mission
E. Antonucci and B. R. Dennis **86**, 67
- Transport and Containment of Plasmas, Particles, and Energy within Flares
L. W. Acton, W. A. Brown, M. E. C. Bruner, B. M. Haisch, and K. T. Strong **86**, 79
- Polarization Measurements Using the Bragg Crystal Spectrometers on HINOTORI
Kyo Akita, Katsuo Tanaka, and Tetsuya Watanabe **86**, 101

- Conductive Heat Flux in the Chromosphere Derived from Line Linear Polarization Observation
J.-C. Henoux, G. Chambe, D. Heristchi, M. Semel, B. Woodgate, R. Shine, and J. Beckers **86**, 115
- Upper Limits on the Total Radiant Energy of Solar Flares
H. S. Hudson and R. C. Willson **86**, 123
- Hydrodynamics of Flaring Loops: SMM Observations and Numerical Simulations
R. Pallavicini and G. Peres **86**, 147
- Behavior of Transition-Region Lines during Impulsive Solar Flares
E. Tandberg-Hanssen, E. Reichmann, and B. Woodgate **86**, 159
- The Optical Flare
H. Zirin **86**, 173
- Observations of a Compact Flare on 1981, September 7, in $H\alpha$, X-Ray, and Microwave Radiations (*Extended Abstract*)
Mitsuo Kanno, Hiroki Kurokawa, and the HINOTORI Group **86**, 193
- The Height of $H\alpha$ Flare Emitting Region (*Extended Abstract*)
Hiroki Kurokawa **86**, 195
- A Flare Model Deduced from HINOTORI and Millimeterwave Interferometer Observations
Kin-Aki Kawabata, Hideo Ogawa, and Ikuro Suzuki **86**, 247
- A Comparison of High-Energy Events in the Quiet Sun with Solar Flares
G. E. Brueckner **86**, 259
- Gamma-Ray Observations from HINOTORI
M. Yoshimori, K. Okudaira, Y. Hirasima, and I. Kondo **86**, 375
- The US-Japan Seminar on 'Recent Advances in the Understanding of Solar Flares' held at Komaba, Tokyo, 5-8 October 1982, *Conference Summary*
J. C. Brown **86**, 458
- Stability of Two-Dimensional Pre-Flare Structures
K. Schindler, J. Birn, and L. Jánicke **87**, 103
- The $H\alpha$ -Cyclonic Spectra of a Flare Loop System on 1981 April 27
X. M. Gu, B. S. Li, Y. J. Ding, S. C. Li, and Z. Li **87**, 155
- The Emerging Magnetic Flux and the Elementary Eruptive Phenomenon
Z. Mouradian, M. J. Martres, and I. Soru-Escaut **87**, 309
- White-Light Radiation from Semi-Empirical Flare Models
Luc Dame and Lawrence Cram **87**, 329
- SIID Flares and Sunspot Morphology
Anthony Achong, Philip A. Stahl, and Cuthbert Nyack **88**, 137 *Errata* 90, 203
- Mass Upflows in 'Post'-Flare Loops
T. G. Forbes and E. R. Priest **88**, 211
- Evolution of a Flaring Loop after Injection of Energetic Electrons
André Duijveman, Boris V. Somov, and André R. Spektor **88**, 275
- The Occurrence Frequency of White-Light Flares
Donald F. Neidig and Edward W. Cliver **88**, 275
- The Kinematics of Solar Inner Coronal Transients
R. M. MacQueen and R. R. Fisher **89**, 89
- Properties of Flares Observed in the $Mg\ I\ b_2$ Line at 5172 Å
J. K. Lawrence, G. A. Chapman, and A. D. Herzog **89**, 341
- X-Ray, $H\alpha$, and Radio Observations of the Two-Ribbon Flare of 16 May, 1981
F. Fárnik, J. Kaastra, B. Kálmán, M. Karlický, C. Slottje, and B. Valníček **89**, 355
- Observation of the Impulsive Phase of a Simple Flare
E. Tandberg-Hanssen, P. Kaufmann, E. J. Reichmann, D. L. Teuber, R. L. Moore, L. E. Orwig, and H. Zirin **90**, 41
- Flare Parameters for the 7 September, 1973 Two-Ribbon Flare
J. G. Doyle and J. C. Raymond **90**, 97
- Modeling of Energy Buildup for a Flare-Productive Region
S. T. Wu, Y. Q. Hu, K. R. Krall, M. J. Hagyard, and J. B. Smith, Jr. **90**, 117
- An Evaluation of the Possibility of Studying Flare Plasma Turbulence Using the Satellites of He I Line Forbidden Components
N. M. Firstova **90**, 269

- H α and Hard X-Ray Development in Two-Ribbon Flares**
B. N. Dwivedi, H. S. Hudson, S. R. Kane, and Z. Švestka 90, 331
- He I 10830 Observations of the 3N/M4.0 Flare of 4 September, 1982**
Karen L. Harvey and Frank Recely 91, 127
- A Multiwavelength Study of a Double Impulsive Flare**
K. T. Strong, A. O. Benz, B. R. Dennis, J. W. Leibacher, R. Mewe, A. I. Poland, J. Schrijver, G. Simnett, J. B. Smith, Jr., and J. Sylwester 91, 325
- Observations of Preburst Heating and Magnetic Field Changes in a Coronal Loop at 20 cm Wavelength**
Robert F. Wilson 92, 189
- The Hydrogen Emission Spectrum in Three White-Light Flares**
Donald F. Neidig and Philip H. Wiborg, Jr. 92, 217
- Spatial Development of X-Ray Emission during the Impulsive Phase of a Solar Flare**
Cornelis de Jager, André Boelee, and David M. Rust 92, 245
- H α Red Asymmetry of Solar Flares**
K. Ichimoto and H. Kurokawa 93, 105
- Are EUV Bursts Members of the Flare Family?**
R. Grant Athay 93, 123
- Preflare Activity of Solar Prominences**
G. Simon, N. Mein, P. Mein, and L. Gesztelyi 93, 325
- Analysis of the Magnetic Field Configuration of a Filament-Associated Flare from X-Ray, UV, and Optical Observations**
Chung-Chieh Cheng and R. Pallavicini 93, 337
- Dynamic Evolution of Recurrent Mass Ejections Observed in H α and C IV Lines**
B. Schmieder, P. Mein, M. J. Martres, and E. Tandberg-Hanssen 94, 133
- Revivals of a Coronal Arch**
Zdeněk Švestka 94, 171
- Energy Release in Solar Flares**
P. A. Sturrock, P. Kaufmann, R. L. Moore, and D. F. Smith 94, 341
- Hard X-Ray Imaging of a Solar Gradual Hard X-Ray Burst on April 1, 1981**
T. Takakura, K. Ohki, T. Sakurai, J. L. Wang, J. Y. Xuan, S. C. Li, and R. Y. Zhao 94, 359
- Ejection of Chromospheric Material Associated with Injection of Electrons in the Solar Corona**
N. Mein and Y. Avignon 95, 331
- The Kinematic Processes in Solar Prominences and Flares and Their Spectral Features**
Ye Shi-Hui and Jin Jie-Hai 96, 113
- Initial Phase of Chromospheric Evaporation in a Solar Flare**
E. Antonucci, B. R. Dennis, A. H. Gabriel, and G. M. Simnett 96, 129
- Coronal Explosions**
Cornelis de Jager 96, 143
- The Correlation of Solar Flare Production with Magnetic Energy in Active Regions**
E. B. Mayfield and John K. Lawrence 96, 293
- An Example for Solar Flares Caused by Magnetic Field Non-Equilibrium**
N. Seehafer 96, 307
- Hard X-Ray Images of Possible Reconnection in the Flare of 21 May, 1980**
Zdeněk Švestka and Giannina Poletto 97, 113
- Coronal X-Ray Activity Preceding Solar Flares**
David F. Webb 97, 321
- Interpretation of Fast Ripple Structure in Solar Impulsive Bursts**
Jon M. Loran, John C. Brown, Emilia Correia, and Pierre Kaufmann 97, 363
- H α Manifestation of an Energetic Limb Flare, June 21, 1980**
Marie K. McCabe 98, 127
- Energetics of a Double Flare on November 8, 1980**
J. G. Doyle, P. B. Byrne, B. R. Dennis, A. G. Emslie, A. I. Poland, and G. M. Simnett 98, 141
- On the Fine Structure of Polarized Elements in Solar Flares and Moustaches**
A. N. Babin and A. N. Koval 98, 159
- Analysis of a White-Light Flare Spectrum**
R. Boyer, M. E. Machado, D. M. Rust, and P. Sotirovski 98, 255

The Solar Causes of Geomagnetic DisturbancesV. P. Mikhailutsa and M. N. Gnevyshev **98**, 387**EUV Observations of Subflares and Surges**George L. Withbroe **99**, 145**An Evidence of Flare Energy Buildup and Release Related to Magnetic Shear and Reconnection**Marcos E. Machado **99**, 159**Multiwavelength Analysis of a Well Observed Flare from SMM**P. MacNeice, R. Pallavicini, H. E. Mason, G. M. Simnett, E. Antonucci, R. A. Shine, D. M. Rust, C. Jordan, and B. R. Dennis **99**, 167**21 May Flare Review (*Invited Review Paper*)**Cornelis de Jager and Zdeněk Švestka **100**, 435**Flares, Dynamics (*see Flares*)****Flares, Ejecta (*see Surges; Prominences, Spray; Prominences, Eruptive; Flares*)****Flares, Energetic Particles****Riometer Observations in the Polar Caps of Solar Cosmic Ray Events during the IQSY**A. D. Goedeke, A. J. Masley, and G. W. Adams **1**, 285**Electrons >40 keV and Protons >500 keV of Solar Origin**R. P. Lin and K. A. Anderson **1**, 446**Energetic Protons from the Solar Flare of March 24, 1966**S. W. Kahler, J. H. Primbsch, and K. A. Anderson **2**, 179**Neutron Monitor Observations of High-Energy Solar Particles during the New Cycle**G. A. Baird, G. G. Bell, S. P. Duggal, and M. A. Pomerantz **2**, 491**Solar Flare Injection and Propagation of Low-Energy Protons and Electrons in the Event of 7-9 July, 1966**R. P. Lin, S. W. Kahler, and E. C. Roelof **4**, 338**The Solar Particle Events of May 23 and May 28, 1967**S. T. Lindgren **5**, 382**Relativistic Electrons from Solar Flares**T. L. Cline and F. B. McDonald **5**, 507**The Solar Particle Event of July 16-19, 1966 and Its Possible Association with a Flare on the Invisible Solar Hemisphere**Helen W. Dodson, E. Ruth Hedeman, Stephen W. Kahler, and Robert P. Lin **6**, 294**Observations of Energetic X-Rays and Solar Cosmic Rays Associated with the 23 May 1967 Solar Flare Event**S. R. Kane and J. R. Winckler **6**, 304**Upper Limit for the Solar Neutron Flux in the Energy Interval 20-120 MeV**D. J. Forrest and E. L. Chupp **6**, 339**Anisotropies of Solar Cosmic Rays**L. A. Fisk and W. I. Axford **7**, 486**Solar Flare Optical, Neutron and Gamma-Ray Emission**R. E. Lingenfelter **8**, 341**Solar Circumstances at the Time of the Cosmic Ray Increase on January 28, 1967**Helen W. Dodson and E. Ruth Hedeman **9**, 278**Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 (*Invited Review Paper*)**Z. Švestka and P. Simon **10**, 3**Neutron Monitor and Pioneer 6 and 7 Studies of the January 28, 1967 Solar Flare Event**R. P. Bukata, P. T. Gronstal, R. A. R. Palmeira, K. G. McCracken, and U. R. Rao **10**, 198**Solar Flare Alpha to Proton Ratio Changes Following Interplanetary Disturbances**L. J. Lanzerotti and M. F. Robbins **10**, 212**A Search for Energetic Neutrons Emitted during Solar Flares**R. R. Daniel, G. S. Gokhale, G. Joseph, P. J. Lavakare, and B. S. Sekhon **10**, 465**The Flares of July 6 and 8, 1968**T. Fortini and M. Torelli **11**, 425**The Emission and Propagation of ~40 keV Solar Flare Electrons. I: The Relationship of ~40 keV Electron to Energetic Proton and Relativistic Electron Emission by the Sun**R. P. Lin **12**, 266

- Major H α Flares in Centers of Activity with Very Small or No Spots
Helen W. Dodson and E. Ruth Hedeman 13, 401
- The Phase of Particle Acceleration in the Flare Development
Z. Švestka 13, 471
- The Small Anisotropy and the Rigidity Spectrum of the March 30, 1969 Solar Flare Event
R. P. Bukata, P. T. Gronstal, and R. A. R. Palmeira 14, 419
- White Light Events as Photospheric Flares
Kazutoshi Najita and Frank Q. Orrall 15, 176
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. II: The Electron Emission Structure of Large Active Regions
R. P. Lin 15, 453
- Energetic Electrons Associated with Solar Flares and Their Relation to Type I Noise Activity
Kunitomo Sakurai 16, 198
- Long Term Storage of Relativistic Particles in the Solar Corona
George M. Simnett and Stephen S. Holt 16, 208
- 10-100 keV Electron Acceleration and Emission from Solar Flares
R. P. Lin and H. S. Hudson 17, 412
- Relativistic Electrons in Solar Particle Events
Dayton Datlowe 17, 436
- The Effect of a Bounded Interplanetary Diffusion Medium on the Propagation of Solar Flare Cosmic Rays
Julius Feit 17, 473
- The Decay Phase of Solar Flare Events
K. G. McCracken, U. R. Rao, R. P. Bukata, and E. P. Keath 18, 100
- The Helium-Enriched Interplanetary Plasma from the Proton Flares of August/September, 1966
J. Hirshberg, J. R. Asbridge, and D. E. Robbins 18, 313
- Balloon Observations of Solar Protons on September 29-30, 1968, over Iceland
Dj. Heristchi, J. P. Legrand, and D. Petrou 18, 321
- The Anomalous Distribution in Heliocentric Longitude of Solar Injected Cosmic Radiation
E. P. Keath, R. P. Bukata, K. G. McCracken, and U. R. Rao 18, 503
- On the Flux of Neutrons from Flares
Z. Švestka 19, 202
- On the Flux of Gamma Rays from Solar Flares
L. D. de Feiter 19, 207
- Anisotropy Characteristics of Low Energy Cosmic Ray Population of Solar Origin
U. R. Rao, K. G. McCracken, F. R. Allum, R. A. R. Palmeira, W. C. Bartley, and I. Palmer 19, 209
- The Unusual Anisotropic Solar Particle Event of November 18, 1968
S. P. Duggal, I. Guidi, and M. A. Pomerantz 19, 234
- The Solar Longitude Dependence of Proton Event Delay Time
E. Barouch, M. Gros, and P. Masse 19, 483
- A Note on the Acceleration Phase of High-Energy Particles in the Solar Flare on 7 July, 1966
Kunitomo Sakurai 20, 147
- Propagation of Low Energy Protons Associated with the 24 January 1969 Solar Flare
A. Balogh, P. C. Hedgecock, R. J. Hynds, and J. Sear 20, 150
- The Release of Energetic Particles from the Sun
G. M. Simnett 20, 448
- The Transfer of Lyman Continuum Radiation in Chromospheric Flares
Robert S. Kandel, Michael D. Papagiannis, and Federico M. Strauss 21, 176
- Relativistic Electrons from the Sun Observed by IMP-4
G. M. Simnett 22, 189
- A Search for High Energy Gamma-Rays from Solar Active Regions
R. K. Sood 23, 183
- Location of the Electron Acceleration Region in Solar Flares
S. R. Kane and R. P. Lin 23, 457
- High Energy Electrons Detected during Solar Flares
C. Dilworth, D. Maccagni, F. Perotti, E. G. Tanzi, J. P. Mercier, A. Raviart, L. Treguer, and M. Gros 23, 487

- Change of Solar Flare Proton to Alpha Ratios during an Energetic Storm Particle Event
M. Scholer, D. Hovestadt, and B. Häusler **24**, 475
- A Search for Neutrons of Solar Origin Using Balloon Borne Detectors 1967-69
C. J. Eyles, A. D. Linney, and G. K. Rochester **24**, 483
- Observation of Solar Particle Fluxes over Extended Solar Longitudes
R. P. Bukata, U. R. Rao, K. G. McCracken, and E. P. Keath **26**, 229
- Evidence for a Two-Component Injection of Cosmic Rays from the Solar Flare of 1969, March 30
I. D. Palmer and S. F. Smerd **26**, 460
- Sectorial Anisotropy of Solar Cosmic Rays
S. P. Duggal and M. A. Pomerantz **27**, 227
- Lifetime of Solar Flare Particles in Coronal Storage Regions
Kinsey A. Anderson **27**, 442
- Energetic Solar Particles and Their Relation to Optical Flares
S. Biswas and B. Radhakrishnan **28**, 211
- Estimation of an Upper Limit for the Solar Neutron Emission during Large Flares
E. Kirsch **28**, 233
- Characteristics of Electron and High-Energy Proton Flares
Emmanuel T. Sarris and Stanley D. Shawhan **28**, 519
- The Continuous Emission of Low Energy Cosmic Rays during Solar Flares
Julius Feit **29**, 211
- A Comparison of Theoretical and Experimental Estimates of the Solar Proton Diffusion Coefficient during Three Flare Events
S. Webb, A. Balogh, J. J. Quenby, and J. F. Sear **29**, 477 *Erratum 30, 548*
- Variations of the Relative Abundances of He, (C, N, O) and Fe-Group Nuclei in Solar Cosmic Rays and Their Relationship to Solar Particle Acceleration
D. L. Bertsch, S. Biswas, C. E. Fichtel, C. J. Pellerin, and D. V. Reames **31**, 247
- Evidence for Thin-Target X-Ray Emission in a Small Solar Flare on 26 February 1972
D. W. Datlowe and R. P. Lin **32**, 459
- Effect of Solar Corona Conditions on Flare Particle Propagation
G. Cherki, J. P. Mercier, A. Raviart, L. Treguer, D. Maccagni, F. Perotti, and G. Villa **34**, 223
- A Correlation between Time-Overlapping Solar Flares and the Release of Energetic Particles
G. M. Simnett **34**, 377
- Type II Radio Bursts and Particle Acceleration
Z. Švestka and L. Fritzová-Švestková **36**, 417
- Propagation of Flare Protons in the Solar Atmosphere
R. Reinhard and G. Wibberenz **36**, 473
- Cosmic Ray Anisotropies Observed Late in the Decay Phase of Solar Flare Events
F. R. Allum, R. A. R. Palmeira, K. G. McCracken, U. R. Rao, D. H. Fairfield, and L. J. Gleeson **38**, 227
- A Search for Solar Neutrons during Solar Flares
S. O. Ifedili **39**, 233
- Intensities and Anisotropies of Low Energy Solar Protons Measured Aboard the Satellites Azur, Explorer 35 and 41, November 1969-April 1970
E. Kirsch and J. W. Münch **39**, 459
- The Variation of Solar Proton Energy Spectra and Size Distribution with Heliolongitude
M. A. I. van Hollebeke, L. S. Ma Sung, and F. B. McDonald **41**, 189
- Heavy Solar Cosmic Rays in the January 25, 1971 Solar Flare
Charles J. Pellerin, Jr. **41**, 449
- Determination of the Upper Cutoff of the 1-2 September 1971 Proton Event from Satellite Measurements
Dj. Heristchi and G. Trotter **41**, 459
- A Complete Model of the Propagation of Solar-Flare Cosmic Rays
C. K. Ng and L. J. Gleeson **46**, 347
- Cooperation with the SCOSTEP Project: Study of Travelling Interplanetary Phenomena (STIP)
M. Dryer and M. A. Shea **47**, 413
- Non-Thermal Processes in Large Solar Flares
R. P. Lin and H. S. Hudson **50**, 153

- Coherent Propagation of Non-Relativistic Solar Electrons
V. G. Kurt, Yu. I. Logachev, and N. F. Pissarenko **53**, 157
- Effects of Electrons versus Protons in the Solar Atmosphere
H. S. Hudson **53**, 295
- On the Problem of Power-Law Spectrum of Particles Accelerated in Solar Flares
A. A. Korchak **56**, 223 *Errata 58, 211*
- Manifestation of Pulsation Instability in Solar Radio Emission Preceding Proton Flares
M. M. Kobrin, A. I. Korshunov, S. I. Arbutov, V. V. Pakhomov, V. M. Fridman, and Yu. V. Tikhomirov **56**, 359
- Threshold Effect in Second-Stage Acceleration
H. S. Hudson **57**, 237
- Solar Wind Heavy Ions from Flare-Heated Coronal Plasma
S. J. Bame, J. R. Asbridge, W. C. Feldman, E. E. Fenimore, and J. T. Gosling **62**, 179
- Coulomb Losses and the Nuclear Composition of the Solar Flare Accelerated Particles
A. A. Korchak **66**, 149
- Is There a Limit on Solar Flare Proton Fluxes?
D. D. Barbosa **67**, 181
- The November 22, 1977 Solar Flare: Evidence for 2.23 and 4.43 MeV Line Emission from the Signe 2 MP Experiment
G. Chambon, K. Hurley, M. Niel, R. Talon, G. Vedrenne, I. V. Estuline, and O. B. Likine **69**, 147
- Enhanced Emission of Alfvén Waves from Sunspots during Proton Flares
D. J. Mullan **70**, 381
- Second-Stage Acceleration in a Limb-Occulted Flare
H. S. Hudson, R. P. Lin, and R. T. Stewart **75**, 245
- Prompt Injection of Relativistic Protons from the September 1, 1971 Solar Flare
Edward W. Cliver **75**, 341
- Gamma Radiation and Photospheric White-Light Flare Continuum
H. S. Hudson and B. N. Dwivedi **76**, 45
- Energetic Electrons as an Energy Transport Mechanism in Solar Flares
A. Gordon Emslie **86**, 133
- High Energy Particle Acceleration in Solar Flares - Observational Aspects
E. L. Chupp **86**, 383
- Gamma-Ray Lines and Neutrons from Solar Flares
R. Ramaty, R. J. Murphy, B. Kozlovsky, and R. E. Lingenfelter **86**, 395
- Characteristics of Gamma-Ray Line Flares as Observed in Hard X-Ray Emissions and Other Phenomena
T. Bai, B. R. Dennis, A. L. Kiplinger, L. E. Orwig, and K. J. Frost **86**, 409
- The Stages of Particle Acceleration
E. Chupp **86**, 435
- Mass Transport and the Interaction of Loops
G. Doschek **86**, 454
- Prompt Acceleration of ≥ 30 MeV Per Nucleon Ions in Solar Flares
D. B. Melrose **89**, 149
- Energy and Nuclear Charge Dependence of Abundance Enhancements of Solar Cosmic Ray Heavy Ions in Three Large Solar Events
S. Biswas, N. Durgaprasad, and M. N. Vahia **89**, 163
- The GLE-Associated Flare of 21 August, 1979
E. W. Cliver, S. W. Kahler, H. V. Cane, M. J. Koomen, D. J. Michels, R. A. Howard, and N. R. Sheeley, Jr. **89**, 181
- On the E-W Asymmetry and the Generation of ESP Events
E. T. Sarris, G. C. Anagnostopoulos, and P. C. Trochoutsos **93**, 195
- Interpretation of ^3He Abundance Variations in the Solar Wind
M. A. Coplan, K. W. Ogilvie, P. Bochsler, and J. Geiss **93**, 415
- On the Role of Energetic Particles in Solar Flares
R. Pérez-Enriquez **97**, 131
- H α Manifestation of an Energetic Limb Flare, June 21, 1980
Marie K. McCabe **98**, 127

On the Relation between Solar-Flare Gamma-Ray Emission and Proton Escape into Interplanetary Space

V. V. Zaitsev and A. V. Stepanov **99**, 313

Energetic Ions in Solar γ -Ray Flares (*Invited Review Paper*)

Hugh S. Hudson **100**, 515

Energetic Solar Electrons in the Interplanetary Medium (*Invited Review Paper*)

R. P. Lin **100**, 537

Flares, Flash Phase (*see Flares*)

Flares, Forecasting (*see Flares*)

Flares, Homologous (*see Flares*)

Flares, Loop (*see Prominences, Loop*)

Flares, Models

Currents in the Solar Atmosphere and a Theory of Solar Flares

H. Alfvén and P. Carlqvist **1**, 220

Stellar and Solar Flares

E. Schatzman **1**, 411

A Phenomenological Model for *Disparitions Brusques* Followed by Flarelike Chromospheric Brightenings. I:

The Model, Its Consequences, and Observations in Quiet Solar Regions

Charles L. Hyder **2**, 49 *Rectification* **2**, 505 and *Corrigenda* **3**, 624

Electron Density in Flares. I: Discussion of the Halfwidth Method

Z. Švestka and L. Fritzová-Švestková **2**, 75

Electron Density in Flares. II: Results of Measurements

L. Fritzová-Švestková and Z. Švestka **2**, 87

A Phenomenological Model for *Disparitions Brusques* Followed by Flarelike Chromospheric Brightenings. II:

Observations in Active Regions

Charles L. Hyder **2**, 267 *Rectification* **2**, 505 and *Corrigenda* **3**, 624

Solar Flares as Resulting from the Temporary Interruption of Energy Flow to the Corona: a Case of Hydromagnetic Resonance

G. W. Pneuman **2**, 462

The Stability of Force-Free Magnetic Fields with Cylindrical Symmetry in the Context of Solar Flares

Ulrich Anzer **3**, 298

Remarks on my Paper about Force-Free Magnetic Fields and Solar Flares

Ulrich Anzer **4**, 101

An Explanation of the Electron Density Value in Solar Flares

V. G. Banin **5**, 127

The Initial Development of Solar Flares

J. F. Vesecky and A. J. Meadows **6**, 80

Current Limitation and Solar Flares

P. Carlqvist **7**, 377

On the Gas Flow Due to Solar Flares

V. P. Korobeinikov **7**, 463

Plasma Turbulence in Solar Flares as an Explanation of Some Observed Phenomena

M. Friedman and S. M. Hamberger **8**, 104

A Mechanism for the Build-Up of Flare Energy

Jan Olof Stenflo **8**, 115

Thermal Runaway as the Solar Flare Trigger Mechanism

S. W. Kahler and R. W. Kreplin **14**, 372

White Light Events as Photospheric Flares

Kazutoshi Najita and Frank Q. Orrall **15**, 176

On the Origin of Solar Flare X-Rays

A. A. Korchak **18**, 284

Satellite Lines in the Solar X-Ray Spectrum

Werner M. Neupert **18**, 474

Acceleration of Electrons and Solar Flares Due to Quasi-Static Electric Field

Tatsuo Takakura **19**, 186

- Magnetic Fields, Bremsstrahlung and Synchrotron Emission in the Flare of 24 October 1969
H. Zirin, Gail Pruss, and Joan Vorpahl 19, 463
- The Transfer of Lyman Continuum Radiation in Chromospheric Flares
Robert S. Kandel, Michael D. Papagiannis, and Federico M. Strauss 21, 176
- Heating of the Solar Flare Plasma by High Energy Electrons
Chung-Chieh Cheng 22, 178
- Suppression of the Kink Instability for Magnetic Flux Ropes in the Chromosphere
M. A. Raadu 22, 425
- A Physical Mechanism for the Production of Solar Flares
Hari K. Sen and Marvin L. White 23, 146
- Spectral Analysis of Highly Inhomogeneous Chromospheric Flares
Z. Švestka 24, 154
- Thick-Target Processes and White-Light Flares
H. S. Hudson 24, 414
- Solar Flares in the EUV Observed from OSO-5
P. T. Kelly and W. A. Rense 26, 431
- Thick Target X-Ray Bremsstrahlung from Partially Ionized Targets in Solar Flares
John C. Brown 28, 151
- Two Component Temperature Analysis of OSO-5 X-Ray Flare Data
J. R. H. Herring and I. J. D. Craig 28, 169
- Energetic Solar Particles and Their Relation to Optical Flares
S. Biswas and B. Radhakrishnan 28, 211
- On the Aller's Admixture Radiation Effect during the Compression Process in the Solar Corona and Generation of Coronal Formations
R. E. Guseinov 28, 457
- Spectral Analysis of Sunspot Flares
Marcos E. Machado and Jorge R. Seibold 29, 75
- Spectra of Solar Flares from 8.5 Å to 16 Å
G. A. Doschek, J. F. Meekins, and Robert D. Cowan 29, 125
- On the Ionization of Hydrogen in Optical Flares
John C. Brown 29, 421
- A Kinematic Model of a Solar Flare
Y. Nakagawa, S. T. Wu, and S. M. Han 30, 111
- The Temperature Structure of Chromospheric Flares Heated by Non-Thermal Electrons
John C. Brown 31, 143
- A Model of Solar Flares and Faculae
J. H. Piddington 31, 229
- The H α Flare as a Secondary Product of a Coronal Instability
Z. Švestka 31, 389
- On Some Results of Calculations of the Chromospheric Flare Initial Phase Model According to the Strong Gasodynamic Explosion Theory
R. E. Guseinov 31, 401
- The Flares of August 1972
Harold Zirin and Katsuo Tanaka 32, 173
- The Possible Role of Energetic Electrons in the Production of Surges
S. W. Kahler 32, 477
- Distribution of Temperature and Emission Measure in a Steadily Heated Solar Atmosphere
O. P. Shmeleva and S. I. Syrovatskii 33, 341
- Theoretical Chromospheric Flare Spectra. I: Hydrogen Equilibrium for the Kinematic Flare-Shock Model of Nakagawa *et al.* (1973)
Richard C. Canfield and R. Grant Athay 34, 193
- On a Method to Determine the Effective Extension, Visibility of the Balmer Continuum, and the Effective Mass in Solar Flares
R. E. Guseinov, L. B. Tzirulnik, and A. H. Babayev 34, 207
- Theoretical Model of Flares and Prominences. I: Evaporating Flare Model
T. Hirayama 34, 323

- Spatial Distribution of Soft X-Ray and EUV Emission Associated with a Chromospheric Flare of Importance 1B on August 2, 1972
W. M. Neupert, R. J. Thomas, and R. D. Chapman **34**, 349
- Cooling of Solar Flare Plasmas
W. T. Zaumen and L. W. Acton **36**, 139
- Comments on the Role of Conduction in Optical Flare Heating
John C. Brown **36**, 371
- Ionization Equilibrium in Soft X-Ray-Emitting Solar Flares
K. J. H. Phillips, W. M. Neupert, and R. J. Thomas **36**, 383
- A Clue to the Trigger for Both the Type III Solar Radioburst and the Solar Flare
E. R. Priest and J. Heyvaerts **36**, 433
- Coronal Electric Currents Produced by Photospheric Motions
J. Heyvaerts **38**, 419
- The Alfvén-Wave Theory of Solar Flares
J. H. Piddington **38**, 465
- Analysis of the August 7, 1972 White Light Flare: Its Spectrum and Vertical Structure
Marcos E. Machado and David M. Rust **38**, 499
- On the Low-Temperature Region of Chromospheric Flares
B. V. Somov and S. I. Syrovatskii **39**, 415
- Energy Build-Up and Release Mechanisms in Solar Wind and Auroral Flares
Tatsuzo Obayashi **40**, 217
- On the Behaviour of the Hydrogen Lyman Series in Flares
L. D. de Feiter and Z. Švestka **41**, 415
- Anisotropy and Polarization of Solar X-Ray Bursts
J. C. Henoux **42**, 219
- Flare Model Chromospheres and Photospheres
Marcos E. Machado and Jeffrey L. Linsky **42**, 395
- Preflare Current Sheets in the Solar Atmosphere
E. R. Priest and M. A. Raadu **43**, 177
- Heating and Cooling of the Thermal X-Ray Plasma in Solar Flares
Ronald L. Moore and Dayton W. Datlowe **43**, 189
- Thermal Models of Flaring Region Based on Observations by the SOLRAD 10 Satellite
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini **44**, 101
- Analysis of the Intensities and Profiles of the Spectral Line Mg XII 8.42 Å in the Solar X-Ray Spectrum
J. Jakimiec, V. V. Korneev, V. V. Krutov, I. A. Zhitnik, S. Płocieniak, B. Sylwester, and J. Sylwester **44**, 391
- Expansion of Chromospheric Matter in the Gradual Phase of Solar Flares
K. Ohki **45**, 435
- Flare Build-Up Study, Proceedings of the Study Workshop, held at Falmouth, Cape Cod, Mass., U.S.A., 8-11 September 1975, *Table of Contents*
47, 5
- Flare Build-Up Study, Proceedings of the Study Workshop, held at Falmouth, Cape Cod, Mass., U.S.A., 8-11 September 1975, *Preface*
Zdeněk Švestka **47**, 9
- The Aims of the Flare Build-Up Study (*Introduction*)
L. D. de Feiter **47**, 15
- Current Sheet Models of Solar Flares (*Invited Paper*)
E. R. Priest **47**, 41
- Considerations Concerning Flare Interpretations (*Invited Paper, Extended Abstract*)
Friedrich Meyer **47**, 77
- The Role of Plasma Turbulence in the Development of Solar Flares (*Invited Paper*)
M. Kuperus **47**, 79
- Similarities and Differences between Magnetospheric Substorms and Solar Flares (*Invited Paper*)
K. Schindler **47**, 91
- Spectroscopic Far Ultraviolet Observations of Transition Zone Instabilities and Their Possible Role in a Pre-Flare Energy Build-Up
G. E. Brueckner, N. P. Patterson, and V. E. Scherrer **47**, 127 *Erratum/Replacement Figures: Figs. 1, 2, 3, 5, 10, 11 - 53, 547*

- Energy Storage and Deposition in a Solar Flare
J. A. Vorpahl 47, 147
- Source of the Solar Flare Energy
M. D. Altschuler 47, 183
- On Build-Up of Magnetic Energy in the Solar Atmosphere
Y. Nakagawa, R. S. Steinolfson, and S. T. Wu 47, 193
- Pre-Flare Energy Storage (*Title only*)
A. Bruzek 47, 215
- Reconnection, Caused by Nonexistence of Force-Free Equilibria, as a Mechanism for Solar Flares (*Abstract*)
K. Jockers 47, 221
- On Flares, Substorms, and the Theory of Impulsive Flux Transfer Events
A. Bratenahl and P. J. Baum 47, 345
- The Formation of Current Sheets during the Emergence of New Magnetic Flux from below the Photosphere
T. J. Tur and E. R. Priest 48, 89
- Helium Emission from Model Flare Layers
John L. Kulander 48, 287
- On the Origin of the Flare Optical Continuum
Marcos E. Machado 49, 91
- Solar Flares and Plasma Instabilities: Observations, Mechanisms and Experiments (*Invited Review Paper*)
Gerard Van Hoven 49, 95
- The Spatial Structure of a Solar Flare in Soft X-Rays and Centimetric Wavelengths
R. Pallavicini and G. S. Vaiana 49, 297
- Influence of Magnetic Field Structure on the Conduction Cooling of Flare Loops
S. K. Antiochos and P. A. Sturrock 49, 359
- Mass Motions in a Heated Flare Filament
I. J. D. Craig and A. N. McClymont 50, 133
- Non-Thermal Processes in Large Solar Flares
R. P. Lin and H. S. Hudson 50, 153
- The Quantitative Properties of Three Soft X-Ray Flare Kernels Observed with the AS&E X-Ray Telescope on Skylab
S. W. Kahler, R. D. Petrasso, and S. R. Kane 50, 179
- Upper Limits in the Toroidal Component of Force-Free Magnetic Fields in Stellar Atmospheres in the Context of Solar and Stellar Flares
Klaus Jockers 50, 405
- Skinning Process Stability of the Magnetic Field in the Solar Active Regions
V. S. Sokolov, S. S. Katsnelson, A. G. Kosovichev, and V. S. Slavin 51, 293
- A Comment on the Acceleration of Charged Particles in the Presence of Micro-Turbulence as Related to Solar Flares
D. S. Spicer 51, 431
- How Flares Can Be Understood
A. B. Severny 53, 233
- Basic Questions in Our Understanding of Flares
S. I. Syrovatskii 53, 247
- The Thermal and Non-Thermal Flare: A Result of Non-Linear Threshold Phenomena during Magnetic Field-Line Reconnection
D. S. Spicer 53, 249
- An Emerging Flux Model for Solar Flares
J. Heyvaerts, E. R. Priest, and D. M. Rust 53, 255
- Theoretical Considerations on the Triggering of Flares, Discussion
E. R. Priest 53, 259
- Introductory Talk, Location of the Primary Flare Site and Energy Transfer in Flares
J. C. Brown 53, 263
- Comments Regarding Energy Release and Transfer in Solar Flares
J. A. Vorpahl 53, 271
- An Overview of the Energy-Flow Problem in Flares (*Concluding Remarks*)
P. A. Sturrock 53, 299
- An Unstable Arch Model of a Solar Flare
Daniel S. Spicer 53, 305

Solar and Stellar Flares (*Invited Review Paper*)D. J. Mullan **54**, 183

Electrostatically Unstable Heat Flow during Solar Flares and Its Consequences

D. S. Spicer **54**, 379

Magnetic Field Energy Dissipation in Neutral Current Sheets

A. T. Altyntsev, V. I. Krasov, and V. M. Tomozov **55**, 69

Ultraviolet Brightenings in Active Regions as Observed from OSO-8

B. W. Lites and E. R. Hansen **55**, 347

Evolution of the High-Temperature Plasma in the 15 June 1973 Flare

Chung-Chieh Cheng **55**, 413

Multiple Loop Activations and Continuous Energy Release in the Solar Flare of June 15, 1973

K. G. Widing and K. P. Dere **55**, 431

The Effect of Nonlinear Conduction on the Cooling of Flare Loops

K. R. Krall **55**, 455

Bifurcation of Force-Free Solar Magnetic Fields: A Numerical Approach

Klaus Jockers **56**, 37

EUV Structure of a Small Flare

Randolph H. Levine **56**, 185

Analysis of the Emission Line Spectra of a Solar Flare Observed from Skylab

Chung-Chieh Cheng **56**, 205

Analysis of X-Ray Observations of the 15 June 1973 Flare in Active Region NOAA 131

K. R. Krall, E. J. Reichmann, R. M. Wilson, W. Henze, Jr., and J. B. Smith, Jr. **56**, 383 *Errata 57*, 485

Nonlinear Stage of Instability Due to Local Joule-Overheating in the Solar Active Regions

V. S. Sokolov and A. G. Kosovichev **57**, 73

A Theory of the Onset of Solar Eruptive Processes

J. Birn, H. Goldstein, and K. Schindler **57**, 81H α Profiles from Electron-Heated Solar FlaresJohn C. Brown, Richard C. Canfield, and Matthew N. Robertson **57**, 399

A Trigger Mechanism for the Emerging Flux Model of Solar Flares

T. J. Tur and E. R. Priest **58**, 181

The Structure of the Temperature Minimum Region in Solar Flares and Its Significance for Flare Heating Mechanisms

Marcos E. Machado, A. Gordon Emslie, and John C. Brown **58**, 363

The Dependence of Solar Flare Energetics on Flare Volumes

S. W. Kahler **59**, 87

Lyman Continuum Observations of Solar Flares

Marcos E. Machado and Robert W. Noyes **59**, 129

The EUV Continuum Emission (1400-1960 Å) in a Solar Flare Observed from Skylab

Chung-Chieh Cheng and O. Kjeldseth Moe **59**, 361

Heat Transfer in Solar Flares

B. V. Somov **60**, 315

Soft X-Ray Emission and Chromospheric Flares

Marcos E. Machado **60**, 341

The Effects of Magnetic Structure on the Conduction Cooling of Flare Loops

Gerard Van Hoven **61**, 115

A Single Loop of 21 January 1974 Flare

Eijiro Hiei and Kenneth G. Widing **61**, 407

Magnetic Flux of Colinear Bipolar Spot Pairs

P. J. Baum, A. Bratenahl, G. Crockett, and G. Kamin **62**, 53

Study of the Post-Flare Loops on 29 July 1973. I: Dynamics of the X-Ray Loops

J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. D. Petrasso, and Z. Švestka **62**, 123

Study of the Post-Flare Loops on 29 July 1973. II: Physical Parameters in the X-Ray Loops

R. D. Petrasso, J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. Krogstad, F. H. Seguin, and Z. Švestka **62**, 133

Plasma Radiation Diagnostics of the Primary Energy Release Region in Solar Flares

Dean F. Smith and Daniel S. Spicer **62**, 359

- X-Ray Temperature-Emission Measure Modeling of the Solar Corona
G. G. Cohen and D. W. Keith 63, 165
- A Flare-Associated Mechanism for Solar Surges
Per Carlqvist 63, 353
- A Possible Observational Test to Distinguish between Slow and Transient Current Buildup Prior to Solar Flares
D. S. Spicer 64, 121
- The Heating of the Temperature Minimum Region in Solar Flares - A Reassessment
A. Gordon Emslie and Marcos E. Machado 64, 129
- On the Seats of Elementary Flare Bursts
Cornelis de Jager 64, 135
- Kink Instability of Solar Coronal Loops as the Cause of Solar Flares
A. W. Hood and E. R. Priest 64, 303
- Magnetospheric Substorms and Solar Flares
S.-I. Akasofu 64, 333
- Densities and Mass Motions in Transition-Zone Plasmas in Solar Flares Observed from Skylab
Chung-Chieh Cheng 65, 283
- A Two-Temperature Model for the Flare of 5 September, 1973
Irene R. Little-Marenin, J. K. Silk, and A. S. Krieger 65, 299
- Force-Free Magnetic Arcades Relevant to Two-Ribbon Solar Flares
E. R. Priest and A. M. Milne 65, 315
- The Importance of Photospheric Magnetic Field Complexity for Coronal Energy Storage
W. van Tend 66, 21
- Magnetic Instability of Coronal Arcades as the Origin of Two-Ribbon Flares
A. W. Hood and E. R. Priest 66, 113
- Magnetohydrodynamic Equilibrium and Stability of Pre-Flare Loops. Constant Pitch Field
S. S. Hasan 67, 267
- Energy Balance in Current Sheets: From Petschek to Gravity Driven Reconnection?
C. Mercier and J. Heyvaerts 68, 151
- A Model of Hot Loops Associated with Solar Flares. I: Gasdynamics in the Loops
F. Nagai 68, 351
- Turbulence in Fast-Mode Shocks as a Triggering Mechanism in a Solar Flare
Wim J. Weber 69, 119
- The Dynamic Formation of Quasi-Static Active Region Loops
I. J. D. Craig and A. N. McClymont 70, 97
- Optical Properties of Bipolar Flare Kernels Associated with Asymmetric Magnetic Loops
Donald F. Neidig 70, 129
- Effect of Thermal Conduction and Radiation on the Dynamics of a Flaring Coronal Loop
S. T. Wu, L. C. Kan, Y. Nakagawa, and E. Tandberg-Hanssen 70, 137
- Loop Models of Solar Flares: Revisions and Comparisons
D. S. Spicer 70, 149
- The Temperature-Density Structure of Coronal Loops in Hydrostatic Equilibrium
M. A. Wragg and E. R. Priest 70, 293
- Are Solar Flares a Result of a Sudden Conversion of Magnetic Energy Stored Prior to Their Onset?
S.-I. Akasofu 71, 107
- First Phase Heating and Particle Acceleration during Solar Flares by Fast Tearing Modes
D. S. Spicer 71, 115
- Hydrodynamic Response of the Solar Chromosphere to an Elementary Flare Burst. I: Heating by Accelerated Electrons
B. V. Somov, S. I. Syrovatskii, and A. R. Spektor 73, 145
- Internal Structure of Reconnecting Current Sheets and the Emerging Flux Model for Solar Flares
A. M. Milne and E. R. Priest 73, 157
- The Optical Continuum of Solar and Stellar Flares
M. A. Livshits, O. G. Badalyan, A. G. Kosovichev, and M. M. Katsova 73, 269
- Thermal Nonequilibrium: A Trigger for Solar Flares?
A. W. Hood and E. R. Priest 73, 289
- Flare Build-Up in Preflare Magnetic Loops and Nonlinear Force-Free Magnetic Fields
Su Qing-Rui 75, 229

- Thermal Trigger for Solar Flares and Coronal Loops Formation
B. V. Somov and S. I. Syrovatskii **75**, 237
- A Qualitative Interpretation of 7 August 1972 Impulsive Phase Flare H α Line Profiles
Richard C. Canfield **75**, 263
- Slow-Shock Heating and the Kopp-Pneuman Model for 'Post'-Flare Loops
P. J. Cargill and E. R. Priest **76**, 357
- Enthalpy Flux Cooling of the Solar Corona
Steven G. Wallenhorst **77**, 167
- The Impulsive and Gradual Phases of a Solar Limb Flare as Observed from the Solar Maximum Mission Satellite
A. I. Poland, M. E. Machado, C. J. Wolfson, K. J. Frost, B. E. Woodgate, R. A. Shine, P. J. Kenny, C. C. Cheng, E. A. Tandberg-Hanssen, E. C. Bruner, and W. Henze **78**, 201
- Energetics of Two-Ribbon Solar Flares
G. W. Pneuman **78**, 229
- Study of the Post-Flare Loops on 29 July 1973. IV: Revision of T and n_e Values and Comparison with the Flare of 21 May 1980
Z. Švestka, H. W. Dodson-Prince, S. F. Martin, O. C. Mohler, R. L. Moore, J. T. Nolte, and R. D. Petraso **78**, 271
- Enthalpy Flux Cooling of the Solar Corona. II: Applications to Closed Coronal Structures
Steven G. Wallenhorst **79**, 333
- Temperature Minimum Heating in Solar Flares by Resistive Dissipation of Alfvén Waves
A. Gordon Emslie and P. A. Sturrock **80**, 99
- Numerical Study of Line-Tied Magnetic Reconnection
T. G. Forbes and E. R. Priest **81**, 303
- Electric Fields in Coronal Magnetic Loops
P. Foukal, P. Miller, and L. Gilliam **83**, 83
- A Dynamo Theory of Solar Flares
J. R. Kan, S.-I. Akasofu, and L. C. Lee **84**, 153
- A Numerical Experiment Relevant to Line-Tied Reconnection in Two-Ribbon Flares
T. G. Forbes and E. R. Priest **84**, 169
- Heat Balance for the High-Temperature Component of a Solar Flare
André Duijveman **84**, 189
- The Queens' Flare: Its Structure and Development; Precursors, Pre-Flare Brightenings, and Aftermaths
Cornelius de Jager, Marcos E. Machado, Aert Schadee, Keith T. Strong, Zdeněk Švestka, Bruce E. Woodgate, and W. van Tend **84**, 205
- The Structure and Evolution of a Solar Flare as Observed in 3.5-30 keV X-Rays
R. A. Harrison, G. M. Simnett, P. Hoyng, H. LaFleur, and H. F. Van Beek **84**, 237
- Evolution of Electron and Proton Temperatures in a Flaring Loop. I: A Case of Thermal Heating of Electrons
F. Nagai, S. T. Wu, and E. Tandberg-Hanssen **84**, 271
- The Flares of April 1980. A Case for Flares Caused by Interacting Field Structures
Marcos E. Machado, Boris V. Somov, Marta G. Rovira, and Cornelis de Jager **85**, 157 *Corrigendum*
89, 233
- Spectral Analysis of the Optical Continuum in the 24 April 1981 Flare
Donald F. Neidig **85**, 285
- Magnetic Theories of Solar Flares
E. R. Priest **86**, 33
- Solar Flare X-Ray Spectra from the P78-1 Spacecraft
G. A. Doschek **86**, 49
- Observation of Chromospheric Evaporation during the Solar Maximum Mission
E. Antonucci and B. R. Dennis **86**, 67
- Transport and Containment of Plasmas, Particles, and Energy within Flares
L. W. Acton, W. A. Brown, M. E. C. Bruner, B. M. Haisch, and K. T. Strong **86**, 79
- Interpretation of the Soft X-Ray Spectra from HINOTORI
K. Tanaka, N. Nitta, K. Akita, and T. Watanabe **86**, 91
- Thermal Evolution of Flare Plasmas
Tetsuya Watanabe, Katsuo Tanaka, Kyo Akita, and Nariaki Nitta **86**, 107
- Hydrodynamics of Flaring Loops: SMM Observations and Numerical Simulations
R. Pallavicini and G. Peres **86**, 147

- Observation of the Flare of 12 June 1982 by Norikura Coronagraph and HINOTORI
E. Hiei, T. Okamoto, and K. Tanaka **86**, 185
- A Flare Model Deduced from HINOTORI and Millimeterwave Interferometer Observations
Kin-Aki Kawabata, Hideo Ogawa, and Ikuro Suzuki **86**, 247
- Imaging of Impulsive Solar Flare Phenomena
A. Duijveman and P. Hoyng **86**, 279
- Temperature Structure of Spatially Resolved Hard X-Ray Flares
G. M. Simnett **86**, 289
- Dynamical Interpretation of the Very Hot Region Appearing at the Top of a Loop
Kazunari Shibata, Yutaka Uchida, and Takashi Sakurai **86**, 345
- Spatial Structure of High Energy Photon Sources
S. R. Kane **86**, 355
- Is the Electron Distribution Thermal or Nonthermal?
G. Dulk **86**, 451
- Stability of Two-Dimensional Pre-Flare Structures
K. Schindler, J. Birn, and L. Janicke **87**, 103
- Magnetic Stability of Coronal Arcades Relevant to Two-Ribbon Flares
A. W. Hood **87**, 279
- Magnetic Equilibrium in Coronal Arcades
J. P. Melville, A. W. Hood, and E. R. Priest **87**, 301
- White-Light Radiation from Semi-Empirical Flare Models
Luc Dame and Lawrence Cram **87**, 329
- Mass Upflows in 'Post'-Flare Loops
T. G. Forbes and E. R. Priest **88**, 211
- Evolution of a Flaring Loop after Injection of Energetic Electrons
André Duijveman, Boris V. Somov, and André R. Spektor **88**, 257
- A Comparison of the Thick-Target Model with Stereo Data on the Height Structure of Solar Hard X-Ray Bursts
J. C. Brown, V. A. Carlaw, D. Cromwell, and S. R. Kane **88**, 281
- The Reason for Magnetospheric Substorms and Solar Flares
Walter J. Heikkilä **88**, 329
- Simultaneous H and K Ca II, h and k Mg II, $L\alpha$ and $L\beta$ H I Profiles of the April 15, 1978 Solar Flare Observed with the OSO-8/L.P.S.P. Experiment
P. Lemaire, M. Choucq-Bruston, and J.-C. Vial **90**, 63
- Flare Parameters for the 7 September, 1973 Two-Ribbon Flare
J. G. Doyle and J. C. Raymond **90**, 97
- Heat Flux Saturation in Hydrodynamic Soft X-Ray Solar Flare Plasmas
I. J. D. Craig and J. W. Davys **90**, 343
- A Numerical Model of a Solar Flare Based on Electron Beam Heating of the Chromosphere
P. MacNeice, R. W. P. McWhirter, D. S. Spicer, and A. Burgess **90**, 357
- Forced Reconnection by Nonlinear Magnetohydrodynamic Waves
J. Sakai, T. Tajima, and F. Brunel **91**, 103
- Steady Models for the Hard X-Ray Loops in the Solar Corona
T. Takakura **91**, 311
- A Multiwavelength Study of a Double Impulsive Flare
K. T. Strong, A. O. Benz, B. R. Dennis, J. W. Leibacher, R. Mewe, A. I. Poland, J. Schrijver, G. Simnett, J. B. Smith, Jr., and J. Sylwester **91**, 325
- Diagnostic Application of Highly Ionized Iron Lines in the XUV Spectrum of a Solar Flare
H. E. Mason, A. K. Bhatia, S. O. Kastner, W. M. Neupert, and M. Swartz **92**, 199
- The Spatial Distribution of 6 Centimeter Gyroresonance Emission from a Flaring X-Ray Loop
S. W. Kahler, D. F. Webb, J. M. Davis, and M. R. Kundu **82**, 271
- Flare Loops Heated by Thermal Conduction
David M. Rust and Boris V. Somov **93**, 95
- Extension of the Reconnection Theory of Two-Ribbon Solar Flares
R. A. Kopp and G. Poletto **93**, 351
- Mg IX and Si XI Line Ratios in the Sun
F. P. Keenan, A. E. Kingston, P. L. Dufton, J. G. Doyle, and K. G. Widing **94**, 91

Energy Release in Solar Flares

P. A. Sturrock, P. Kaufmann, R. L. Moore, and D. F. Smith **94**, 341

Magnetic Reconnection in a High-Temperature Plasma of Solar Flares

B. V. Somov and V. S. Titov **95**, 141

Propagation of Energetic Electron Streams in Solar Flares

Yung Mok **95**, 181

Rocket Observation of the EUV Images of a Solar Flare and Active Regions

T. Hirayama, K. Tanaka, T. Watanabe, K. Akita, T. Sakurai, and K. Nishi **95**, 281

The Relation between Hard X-Ray and Transition-Region Line Emission in Solar Flares

John T. Mariska and A. I. Poland **96**, 317

Hard X-Ray Images of Possible Reconnection in the Flare of 21 May, 1980

Zdeněk Švestka and Giannina Poletto **97**, 113

On the Role of Energetic Particles in Solar Flares

R. Pérez-Enríquez **97**, 131

Energetics of a Double Flare on November 8, 1980

J. G. Doyle, P. B. Byrne, B. R. Dennis, A. G. Emslie, A. I. Poland, and G. M. Simnett **98**, 141

Analysis of a White-Light Flare Spectrum

R. Boyer, M. E. Machado, D. M. Rust, and P. Sotirovski **98**, 255

Kernel Heating and Ablation in the Impulsive Phase of Two Solar Flares

Cornelis de Jager **98**, 267

The Structure of High Temperature Solar Flare Plasma in Non-Thermal Flare Models

A. Gordon Emslie **98**, 281

Current Interruption by Density Depression

J. S. Wagner, T. Tajima, and S.-I. Akasofu **98**, 305

EUV Observations of Subflares and Surges

George L. Withbroe **99**, 145

On the Relation between Solar-Flare Gamma-Ray Emission and Proton Escape into Interplanetary Space

V. V. Zaitsev and A. V. Stepanov **99**, 313

Flares, Morphology (*see Flares*)

Flares, Pre-Flare Phenomena (*see Flares*)

Flares, Proton (*see Flares; Flares, Energetic Particles*)

Flares, Relation to Active Region Magnetic Field
Detailed Analysis of Flares, Magnetic Fields and Activity in the Sunspot Group of Sept. 13-26, 1963

Harold Zirin and Susan Werner **1**, 66

L'éruption d'importance 2 du 4 octobre 1965

G. Banos **1**, 397

Flare Positions Relative to Photospheric Magnetic Fields

Sara F. Smith and Harry E. Ramsey **2**, 158

Magnetic Fields and Flares in the Region CMP, 20 September 1963

G. E. Moreton and A. B. Severny **3**, 282

Étude de la localisation des éruptions dans la structure magnétique évolutive des régions actives solaires

M.-J. Martres, R. Michard, I. Soru-Iscovici, et T. T. Tsap **5**, 187

Magnetic Fields in Flares and Active Prominences. I: The Flares in Active Region McMath No. 8818, May 21 and 23, 1967

J. McKim Malville and E. Tandberg-Hanssen **6**, 278

The Vectormagnetograph of the Fraunhofer Institut

Franz-Ludwig Deubner and R. Liedler **7**, 87

Flare-Associated Coronal Expansion Phenomena

Anton Bruzek and Howard L. DeMastus **12**, 447

The Development and Flaring of an Active Region Exhibiting Unusual Magnetic Structure. II: Active Regions

Peter Foukal **13**, 330

Active Regions. I: The Occurrence of Solar Flares and the Development of Active Regions

H. Zirin **14**, 328

Active Regions. II: Mount Wilson 16997. A Small Spot with Big Flares

H. Zirin **14**, 342

- Preliminary Observations of Coronal Magnetic Fields before and after Solar Proton Events
Jesusa Valdez and Martin D. Altschuler 15, 446
- Unusual Rotation of a Sunspot 30 September to 8 October 1969
Richard A. Miller 16, 373
- A Series of Related Active Regions during January 14-June 1, 1969
Stephen W. Prata 19, 92
- Note on the Characteristics of Sunspot Groups which Produce Solar Proton Flares
Kunitomo Sakurai 23, 142
- A Classification of Magnetic Field Configurations Associated with Solar Flares
P. A. Sturrock 23, 438
- Properties of White Light Flares. I: Association with $H\alpha$ Flares and Sudden Frequency Deviations
Patrick S. McIntosh and Richard F. Donnelly 23, 444
- On Polarimetry in Solar Active Regions. V: The Magnetic Field before and after a Flare
E. Wiehr 24, 129
- Some Aspects of Flare Properties versus Magnetic Boundary Morphology
Stephen W. Prata 25, 136
- Flares and Changing Magnetic Fields
David M. Rust 25, 141
- Flares, Magnetic Configurations, and Magnetic Energy Release
T. J. Janssens 27, 149
- Polarization Structure of a Solar Flare Region at 9.5 mm Wavelength
M. R. Kundu and T. P. McCullough 27, 182
- On the Small-Scale Structure of Solar Magnetic Fields
E. N. Frazier and J. O. Stenflo 27, 330
- Flares Associated with EFR's (Emerging Flux Regions)
Joan A. Vorpahl 28, 115
- The Flares of August 1972
Harold Zirin and Katsuo Tanaka 32, 173
- Force-Free Magnetic Fields and Flares of August 1972
K. Tanaka and Y. Nakagawa 33, 187
- Analysis of the August 7, 1972 White Light Flare: Changes in the Magnetic and Velocity Fields
David M. Rust 33, 205
- Magnetic Fields, Loop Prominences and the Great Flares of August, 1972
David M. Rust and Varda Bar 33, 445
- Chromospheric Activity Associated with Moving Photospheric Magnetic Fields
J.-René Roy and A. G. Michalitsanos 35, 47
- On the Role of the Magnetic Configuration of Flares for Production of Type III Solar Radio Bursts
F. Axisa 35, 207
- Spectrograph, Filtergraph and Magnetograph Observations of the Two-Ribbon Flare of 29 July, 1973
A. G. Michalitsanos and P. Kupferman 36, 403
- Phenomenology of the Subflare: A Synthesis of CINO F
C. de Jager 40, 133
- Investigation of Five White Light Flares
Yu. M. Slonim and Z. B. Korobova 40, 397
- EUV Emission, Filament Activation and Magnetic Fields in a Slow-Rise Flare
David M. Rust, Y. Nakagawa, and W. M. Neupert 41, 397
- Sunspot Motions, Flares and Type III Bursts in McMath 11482
H. Zirin and B. Lazareff 41, 425
- Changes of the $H\alpha$ Fibril Pattern during Solar Flares
A. Bruzek 42, 215
- The Work of the Diode Array: He 10830 Observations of Spicules and Subflares
David M. Rust and Charles A. Bridges III 43, 129
- Spatial Structure and Temporal Development of a Solar X-Ray Flare Observed from Skylab on June 15, 1973
R. Pallavicini, G. S. Vaiana, S. W. Kahler, and A. S. Krieger 45, 411
- An Active Role for Magnetic Fields in Solar Flares (*Invited Paper*)
David M. Rust 47, 21

A Study of the Magnetic and Velocity Fields in an Active Region

K. L. Harvey and J. W. Harvey **47**, 233

Pre-Flare Association of Magnetic Fields and Millimeter-Wave Radio Emission

E. B. Mayfield and K. P. White, III **47**, 277What Should be Observed on the Sun (*Invited Summary*)Z. Švestka **47**, 375Some Studies on H α -Flares and Microwave Bursts in Relation to Sunspot Magnetic ConfigurationsM. K. Das Gupta, T. Chattopadhyay, and S. K. Sarkar **51**, 409

The Relation of Flares to 'Newly Emerging Flux' and 'Evolving Magnetic Structures'

M. J. Martres and I. Soru-Escaut **53**, 225

The Role of Changing Magnetic Fields in Flare Formation, Discussion

D. M. Rust **53**, 235

The Thermal and Non-Thermal Flare: A Result of Non-Linear Threshold Phenomena during Magnetic Field-Line Reconnection

D. S. Spicer **53**, 249

Multiple Loop Activations and Continuous Energy Release in a Solar Flare

R. G. Widing **53**, 277

Microwave Burst Spectra and Solar Flare Magnetic Fields

Donald F. Neidig, Jr. **54**, 165

EUV Structure of a Small Flare

Randolph H. Levine **56**, 185

Analysis of X-Ray Observations of the 15 June 1973 Flare in Active Region NOAA 131

K. R. Krall, E. J. Reichmann, R. M. Wilson, W. Henze, Jr., and J. B. Smith, Jr. **56**, 383 *Errata* 57, 485

Measurement and Analysis of Magnetic Field Variation during a Class 2b Flare

Katsuo Tanaka **58**, 149

Ephemeral Region Flares and the Diffusion of the Network

K. A. Marsh **59**, 105

Umbral Flares

Frances Tang **60**, 119

The Pre-Onset Morphology of the 5 September 1973 Flare

E. J. Schmahl, C. V. Solodyna, J. B. Smith, Jr., and C. C. Cheng **60**, 323Post-Flare H α Plage FormationA. Bruzek **61**, 35

High Resolution Observations of Fibril Changes in a Small Flare

Donald F. Neidig **61**, 121

A Comparison of the Optical and Microwave Emissions of Some Major Solar Flares

Jean-René Roy **64**, 143A Comparative Study of H α -Flares of Different Visual Features in Relation to Radio Bursts and SunspotsM. K. Das Gupta, T. K. Das, and S. K. Sarkar **64**, 323

An Umbral Brightening Associated with a Two-Ribbon Flare

M. Vazquez and F. Herrera **64**, 329

Evidence for an X-Type Neutral Sheet Producing Chromospheric Activity

N. Seehafer and J. Staudé **67**, 121

Na-Light Flare Observations: McMath 13043 - July 1974

A. Cacciani, T. Fortini, and M. Torelli **67**, 311Preflare Conditions, Changes and Events (*Invited Review Paper*)Sara F. Martin **68**, 217

The Role of Photospheric Magnetic Field in the Development of Solar Flares

M. K. Das Gupta, T. K. Das, and S. K. Sarkar **69**, 131

A Twin Flare in Symmetrical Sunspot Groups

M. Waldmeier **70**, 93

Optical Properties of Bipolar Flare Kernels Associated with Asymmetric Magnetic Loops

Donald F. Neidig **70**, 129X-Ray and H α Observations of a Filament-Disappearance Flare: An Empirical Analysis of the Magnetic Field ConfigurationS. W. Kahler, D. F. Webb, and R. L. Moore **70**, 335

Magnetic Flux Changes Associated with the Solar Flares of August 1972

E. B. Mayfield and G. A. Chapman 70, 351

On the Outburst of Flare Activity of 26 November, 1973

Robert Howard and Zdeněk Švestka 71, 49

Reversed-Polarity Regions

Frances Tang 75, 179

Vector Magnetic Field Evolution, Energy Storage, and Associated Photospheric Velocity Shear within a Flare-Productive Active Region

K. R. Krall, J. B. Smith, Jr., M. J. Hagyard, E. A. West, and N. P. Cummings 79, 59

A Measurement of the Magnetic Field Direction at the Site of Major Flares

H. Lundstedt 81, 293

The Theory of Quadrupolar Sunspots and the Active Region of August, 1972

Hai-Shou Yang, Hou-Mei Chang, and J. W. Harvey 84, 139 *Errata* 92, 391

The Relative Importances of Solar Type IV Radio Bursts and Flare-Site Magnetic Field Orientations as Predictors of Geomagnetic Activity

L. F. McNamara and C. S. Wright 84, 289

The Flares of April 1980. A Case for Flares Caused by Interacting Field Structures

Marcos E. Machado, Boris V. Somov, Marta G. Rovira, and Cornelis de Jager 85, 157 *Corrigendum* 89, 233Dependence of Radio Emission in Large H α Flares 1967-1970 upon the Orientation of the Local Solar Magnetic Field

Edmond C. Roelof, Helen W. Dodson, and E. Ruth Hedeman 85, 339

The Optical Flare

H. Zirin 86, 173

The Emerging Magnetic Flux and the Elementary Eruptive Phenomenon

Z. Mouradian, M. J. Martres, and I. Soru-Escaut 87, 309

Observation of the Impulsive Phase of a Simple Flare

E. Tandberg-Hanssen, P. Kaufmann, E. J. Reichmann, D. L. Teuber, R. L. Moore, L. E. Orwig, and H. Zirin 90, 41

A Quantitative Study Relating Observed Shear in Photospheric Magnetic Fields to Repeated Flaring

M. J. Hagyard, J. B. Smith, Jr., D. Teuber, and E. A. West 91, 115

Permanent Changes in Filaments near Solar Flares

David M. Rust 93, 73

Preflare Activity of Solar Prominences

G. Simon, N. Mein, P. Mein, and L. Gesztelyi 93, 325

Analysis of the Magnetic Field Configuration of a Filament-Associated Flare from X-Ray, UV, and Optical Observations

Chung-Chieh Cheng and R. Pallavicini 93, 337

Hard X-Ray Imaging of a Solar Gradual Hard X-Ray Burst on April 1, 1981

T. Takakura, K. Ohki, T. Sakurai, J. L. Wang, J. Y. Xuan, S. C. Li, and R. Y. Zhao 94, 359

Rocket Observation of the EUV Images of a Solar Flare and Active Regions

T. Hirayama, K. Tanaka, T. Watanabe, K. Akita, T. Sakurai, and K. Nishi 95, 281

Magnetic Field Structures of Hard X-Ray Flares Observed by Hinotori Spacecraft

Takashi Sakurai 95, 311

The Correlation of Solar Flare Production with Magnetic Energy in Active Regions

E. B. Mayfield and John K. Lawrence 96, 293

An Evidence of Flare Energy Buildup and Release Related to Magnetic Shear and Reconnection

Marcos E. Machado 99, 159

Flares, Spectrum

Comments on a Flare of September 20, 1966

Einar Tandberg-Hanssen 2, 98

Solar Extreme Ultraviolet Emissions in the Range 260-1300 Å Observed from OSO-III

H. E. Hinteregger and L. A. Hall 6, 175

X-Ray and Extreme Ultraviolet (1-400 Å) Spectroscopy of the Sun, from OSO-III

W. M. Neupert, W. A. White, W. J. Gates, M. Swartz, and R. M. Young 6, 183

- Magnetic Fields in Flares and Active Prominences. I: The Flares in Active Region McMath No. 8818, May 21 and 23, 1967
J. McKim Malville and E. Tandberg-Hanssen **6**, 278
- Profiles of the H and K lines of Ca II in Disk Flares
J. McKim Malville, Einar Tandberg-Hanssen, and Dino Zei **7**, 253
- On Some Flare-Sensitive High Photospheric and Low Chromospheric Lines
Yngve Öhman **10**, 178
- The Excitation of the Forbidden Coronal Lines. II: [Ca XV] $\lambda\lambda 5694$ and 5446
R. A. Chevalier and D. L. Lambert **11**, 243
- Solar Soft X-Ray Flare Spectra from OSO-4
J. F. Meekins, G. A. Doschek, H. Friedman, T. A. Chubb, and R. W. Kreplin **13**, 198
- Recombination Edges Observed in Solar Soft X-Ray Flare Spectra
J. F. Meekins and G. A. Doschek **13**, 213
- The Helium-Like Calcium, Silicon, and Sulfur Lines during the Decay of a Large Flare
G. A. Doschek and J. F. Meekins **13**, 220 *Erratum 28, 517*
- The Spectrum of Multiply Ionized Iron between 10 and 17 Å
J. P. Connerade, N. J. Peacock, and R. J. Speer **14**, 159 *Erratum 17, 269*
- Excited Lines in the H and K Region of Ca II in the Solar Flare on March 12, 1969
H. Grossi Gallegos, H. Molnar, and J. R. Seibold **16**, 120
- On the Problem of the Flare-Like Emission in Sodium Lines
E. A. Gurtovenko **16**, 413
- A Comment on Solar Flare Iron Line Emission at 1.9 Å
K. J. H. Phillips and J. L. Culhane **16**, 469
- Evidence for the Photospheric Origin of the Flare Optical Continuum
Marcos E. Machado **17**, 389
- Satellite Lines in the Solar X-Ray Spectrum
Werner M. Neupert **18**, 474
- Solar Flares in the Extreme Ultraviolet
L. A. Hall **21**, 167
- Remark on Rotational Motions in Flares and Prominences
Yngve Öhman **23**, 134
- Properties of White Light Flares. I: Association with H α Flares and Sudden Frequency Deviations
Patrick S. McIntosh and Richard F. Donnelly **23**, 444
- Spectral Analysis of Highly Inhomogeneous Chromospheric Flares
Z. Švestka **24**, 154
- Solar Flares in the Extreme Ultraviolet. I: The Observations
A. T. Wood, Jr., R. W. Noyes, A. K. Dupree, M. C. E. Huber, W. H. Parkinson, E. M. Reeves, and G. L. Withbroe **24**, 169
- Solar Flares in the Extreme Ultraviolet. II: Comparisons with Other Observations
A. T. Wood, Jr. and R. W. Noyes **24**, 180
- The Absence of Flares in $\lambda 3835$ and the Heating of the Chromosphere
Harold Zirin **26**, 393
- Solar Flares in the EUV Observed from OSO-5
P. T. Kelly and W. A. Rense **26**, 431
- Note on Heliumlike Silicon and Sulfur Lines Observed in the X-Ray Spectra of Solar Flares (*Erratum*)
G. A. Doschek and J. F. Meekins **28**, 517
- Spectral Analysis of Sunspot Flares
Marcos E. Machado and Jorge R. Seibold **29**, 75
- The Extreme Ultraviolet Emissions of Solar Flares: A Comparison between OSO-6 Spectroheliograph Observations and SFDs
R. F. Donnelly, A. T. Wood, Jr., and R. W. Noyes **29**, 107
- Spectra of Solar Flares from 8.5 Å to 16 Å
G. A. Doschek, J. F. Meekins, and Robert D. Cowan **29**, 125
- Solar X-Ray Spectra Observed from the 'Intercosmos-4' Satellite and the 'Vertical-2' Rocket
Yu. I. Grineva, V. I. Karev, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, L. A. Vainstein, B. N. Vasilyev, and I. A. Zhitnik **29**, 441

- Multidirectional Scanning of Active Regions with a Slit-Jaw Spectrograph and a Solar Chromatograph. I: Description of the Method and Some Preliminary Results for the Flare Event of August 4th 1972
U. Kusoffsky and G. Pålsgård **30**, 121
- Solar Flare Line Emission between 6 Å and 25 Å
W. M. Neupert, M. Swartz, and S. O. Kastner **31**, 171
- Extreme Ultraviolet Spectrum of the Solar Flare of 2114 UT March 27, 1967
R. F. Donnelly and L. A. Hall **31**, 411
- The Flares of August 1972
Harold Zirin and Katsuo Tanaka **32**, 173
- Theoretical Chromospheric Flare Spectra. I: Hydrogen Equilibrium for the Kinematic Flare-Shock Model of Nakagawa *et al.* (1973)
Richard C. Canfield and R. Grant Athay **34**, 193
- On a Method to Determine the Effective Extension, Visibility of the Balmer Continuum, and the Effective Mass in Solar Flares
R. E. Guseinov, L. B. Tzirulnik, and A. H. Babayev **34**, 207
- Theoretical Chromospheric Flare Spectra. II: Hydrogen Equilibrium for Brown's (1973) Models for Heating by Non-Thermal Electrons
Richard C. Canfield **34**, 339
- Spatial Distribution of Soft X-Ray and EUV Emission Associated with a Chromospheric Flare of Importance 1B on August 2, 1972
W. M. Neupert, R. J. Thomas, and R. D. Chapman **34**, 349
- On Helium-Like $1s2l-1snl'$ Transactions in Solar Flare Spectra
S. O. Kastner, W. M. Neupert, and M. Swartz **36**, 121
- Ionization Equilibrium in Soft X-Ray-Emitting Solar Flares
K. J. H. Phillips, W. M. Neupert, and R. J. Thomas **36**, 383
- Spectrograph, Filtergraph and Magnetograph Observations of the Two-Ribbon Flare of 29 July, 1973
A. G. Michalitsanos and P. Kupferman **36**, 403
- Analysis of the August 7, 1972 White Light Flare: Its Spectrum and Vertical Structure
Marcos E. Machado and David M. Rust **38**, 499
- On the Behaviour of the Hydrogen Lyman Series in Flares
L. D. de Feiter and Z. Švestka **41**, 415
- Crystal Spectrometer Studies of the Sun Employing a Rotation Modulation Collimator
D. H. Brabban, W. M. Glencross, and F. D. Rosenberg **42**, 355
- Flare Model Chromospheres and Photospheres
Marcos E. Machado and Jeffrey L. Linsky **42**, 395
- Observation of Possible Fe XVII $2p^53p(^1S_0)-2p^53s(^1P_1, ^3P_1)$ Transitions in Spectra of a Solar Active Region and Flare
S. O. Kastner, W. M. Neupert, and M. Swartz **43**, 111
- The Solar-Flare Infrared Continuum
K. Ohki and H. S. Hudson **43**, 405
- Observations of Solar Gamma Ray Continuum between 360 keV and 7 MeV on August 4, 1972
A. N. Suri, E. L. Chupp, D. J. Forrest, and C. Reppin **43**, 415
- The Solar-Flare Infrared Continuum: Observational Techniques and Upper Limits
H. S. Hudson **45**, 69
- Spectroscopic Far Ultraviolet Observations of Transition Zone Instabilities and Their Possible Role in a Pre-Flare Energy Build-Up
G. E. Brueckner, N. P. Patterson, and V. E. Scherrer **47**, 127 *Erratum/Replacement Figures: Figs. 1, 2, 3, 5, 10, 11 - 53, 547*
- Possible Spectral Diagnostics for Turbulent Electric Fields in Solar Flares
P. Bakshi and G. Kalman **47**, 307
- Problems in Relating the Optical and X-Ray Emissions from a Solar Flare
J.-René Roy **48**, 265
- Helium Emission from Model Flare Layers
John L. Kulander **48**, 287
- On the Origin of the Flare Optical Continuum
Marcos E. Machado **49**, 91

Comments on Salyut-4 Observations of Active Regions on the Sun

A. B. Severny **53**, 285

Evolution of the High-Temperature Plasma in the 15 June 1973 Flare

Chung-Chieh Cheng **55**, 413

Multiple Loop Activations and Continuous Energy Release in the Solar Flare of June 15, 1973

K. G. Widing and K. P. Dere **55**, 431

Analysis of the Emission Line Spectra of a Solar Flare Observed from Skylab

Chung-Chieh Cheng **56**, 205

New Satellite Structure of the Solar and Laser Plasma Spectra in Vicinity of the $L\alpha$ (Mg XII) Line

E. V. Aglizki, V. A. Boiko, A. Ya. Faenov, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, S. A. Pikuz, U. I. Safronova, J. A. Sylwester, A. M. Urnov, L. A. Vainshtein, and I. A. Zhitnik **56**, 375

The Characteristics of Impulsive Solar EUV Bursts

A. Gordon Emslie and Robert W. Noyes **57**, 373

The EUV Continuum Emission (1400-1960 Å) in a Solar Flare Observed from Skylab

Chung-Chieh Cheng and O. Kjeldseth Moe **59**, 361

Silicon X-Ray Line Emission from Solar Flares and Active Regions

John H. Parkinson, R. S. Wolff, H. L. Kestenbaum, W. H.-M. Ku, J. R. Lemen, K. S. Long, R. Novick, R. J. Suozzo, and M. C. Weisskopf **60**, 123

Iron $K\alpha$ -Fluorescence in Solar Flares: A Probe of the Photosphere Iron Abundance

Taeil Bai **62**, 113 *Erratum* **64**, 417

Solar Flare X-Ray Spectra. I: Wavelengths of Fe XXIV-XXV Lines in the Regions $\lambda = 1.85$ -1.87 Å

V. V. Korneev, V. V. Krutov, S. L. Mandelstam, A. M. Urnov, I. A. Zhitnik, E. Ya. Kononov, B. Sylwester, and J. Sylwester **63**, 319

Solar Flare X-Ray Spectra. II: Laboratory Reproduction in the Region of Fe XXV-XXVI Resonance Lines

V. V. Korneev, V. V. Krutov, S. L. Mandelstam, A. M. Urnov, I. A. Zhitnik, E. Ya. Golts, E. Ya. Kononov, and Y. V. Sidelnikov **63**, 329

Densities and Mass Motions in Transition-Zone Plasmas in Solar Flares Observed from Skylab

Chung-Chieh Cheng **65**, 283

A Two-Temperature Model for the Flare of 5 September, 1973

Irene R. Little-Marenin, J. K. Silk, and A. S. Krieger **65**, 299

Observed $L\alpha$ Profiles for Two Solar Flares: 14:12 UT 15 June, 1973 and 23:16 UT 21 January, 1974

Richard C. Canfield and M. E. VanHoosier **67**, 339

Solar Flare X-Ray Spectra. III: Initial and Final Phase

V. V. Korneev, V. V. Krutov, S. L. Mandelstam, B. Sylwester, I. P. Tindo, A. M. Urnov, B. Valniček, and I. A. Zhitnik **68**, 381

On Doppler Shifts of the Fe XXV Ion Resonance Line in Solar Flare X-Ray Spectra

V. V. Korneev, I. A. Zhitnik, S. L. Mandelstam, and A. M. Urnov **68**, 391

The November 22, 1977 Solar Flare: Evidence for 2.23 and 4.43 MeV Line Emission from the Signe 2 MP Experiment

G. Chambon, K. Hurley, M. Niel, R. Talon, G. Vedrenne, I. V. Estuline, and O. B. Likine **69**, 147

H α Flare Spectra

Stephen A. Schoolman and Eric D. Ganz **70**, 363

Electron Impact Polarization of X-Ray Lines from Hydrogen-Like Ions during Solar Flares

Eberhard Haug **71**, 77

Simultaneous Measurements of EUV and Soft X-Ray Solar Flare Emission

D. M. Horan and R. W. Kreplin **74**, 265

Gamma Radiation and Photospheric White-Light Flare Continuum

H. S. Hudson and B. N. Dwivedi **76**, 45

The H α /H β Ratio in Solar Flares

Harold Zirin, Margaret Liggett, and Alan Patterson **76**, 387

A Possible Explanation of Non-Steady-State Appearances in X-Ray Spectra of Solar Flares

K. N. Koshelev and E. Ya. Kononov **77**, 177

Impulsive Phase of Flares in Soft X-Ray Emission

E. Antonucci, A. H. Gabriel, L. W. Acton, J. L. Culhane, J. G. Doyle, J. W. Leibacher, M. E. Machado, L. E. Orwig, and C. G. Rapley **78**, 107

Comparison of Observed Ca XIX and Ca XVIII Relative Line Intensities with Current Theory

C. Jordan and N. J. Veck **78**, 125

- The Impulsive and Gradual Phases of a Solar Limb Flare as Observed from the Solar Maximum Mission Satellite
A. I. Poland, M. E. Machado, C. J. Wolfson, K. J. Frost, B. E. Woodgate, R. A. Shine, P. J. Kenny, C. C. Cheng, E. A. Tandberg-Hanssen, E. C. Bruner, and W. Henze **78**, 201
- On the Color of the 26 February 1981 White Light Flare
Donald F. Neidig and Ronald O. Beck **78**, 225
- A Continuous Spectrum of a White-Light Flare
Eijiro Hiei **80**, 113
- Spectral Analysis of the Optical Continuum in the 24 April 1981 Flare
Donald F. Neidig **85**, 285
- Direct Measurements of the Gradual Extreme Ultraviolet Emission from Large Solar Flares
D. M. Horan, R. W. Kreplin, and K. P. Dere **85**, 303
- Solar Flare X-Ray Spectra from the P78-1 Spacecraft
G. A. Doschek **86**, 49
- Non-Thermal and Non-Equilibrium Effects in Soft X-Ray Flare Spectra
A. H. Gabriel, E. Antonucci, and L. Steenman-Clark **86**, 59
- Interpretation of the Soft X-Ray Spectra from HINOTORI
K. Tanaka, N. Nitta, K. Akita, and T. Watanabe **86**, 91
- Hydrodynamics of Flaring Loops: SMM Observations and Numerical Simulations
R. Pallavicini and G. Peres **86**, 147
- Behavior of Transition-Region Lines during Impulsive Solar Flares
E. Tandberg-Hanssen, E. Reichmann, and B. Woodgate **86**, 159
- Observation of the Flare of 12 June 1982 by Norikura Coronagraph and HINOTORI
E. Hiei, T. Okamoto, and K. Tanaka **86**, 185
- Gamma-Ray Observations from HINOTORI
M. Yoshimori, K. Okudaira, Y. Hirasima, and I. Kondo **86**, 375
- White-Light Radiation from Semi-Empirical Flare Models
Luc Dame and Lawrence Cram **87**, 329
- A Line Identification List for the Solar Flare of 7 September, 1973 in the Wavelength Range 1335 Å-380 Å
J. G. Doyle **89**, 115
- Simultaneous H and K Ca II, h and k Mg II, $L\alpha$ and $L\beta$ H I Profiles of the April 15, 1978 Solar Flare Observed with the OSO-8/L.P.S.P. Experiment
P. Lemaire, M. Choucq-Bruston, and J.-C. Vial **90**, 63
- Flare Parameters for the 7 September, 1973 Two-Ribbon Flare
J. G. Doyle and J. C. Raymond **90**, 97
- An Evaluation of the Possibility of Studying Flare Plasma Turbulence Using the Satellites of He I Line Forbidden Components
N. M. Firstova **90**, 269
- A Multiwavelength Study of a Double Impulsive Flare
K. T. Strong, A. O. Benz, B. R. Dennis, J. W. Leibacher, R. Mewe, A. I. Poland, J. Schrijver, G. Simnett, J. B. Smith, Jr., and J. Sylwester **91**, 325
- Diagnostic Application of Highly Ionized Iron Lines in the XUV Spectrum of a Solar Flare
H. E. Mason, A. K. Bhatia, S. O. Kastner, W. M. Neupert, and M. Swartz **92**, 199
- The Hydrogen Emission Spectrum in Three White-Light Flares
Donald F. Neidig and Philip H. Wiborg, Jr. **92**, 217
- Mg IX and Si XI Line Ratios in the Sun
F. P. Keenan, A. E. Kingston, P. L. Dufton, J. G. Doyle, and K. G. Widing **94**, 91
- Rocket Observation of the EUV Images of a Solar Flare and Active Regions
T. Hirayama, K. Tanaka, T. Watanabe, K. Akita, T. Sakurai, and K. Nishi **95**, 281
- Impulsive Phenomena in a Small Active Region
George L. Withbroe, Shadia R. Habbal, and Robert Ronan **95**, 297
- Initial Phase of Chromospheric Evaporation in a Solar Flare
E. Antonucci, B. R. Dennis, A. H. Gabriel, and G. M. Simnett **96**, 129
- The Relation between Hard X-Ray and Transition-Region Line Emission in Solar Flares
John T. Mariska and A. I. Poland **96**, 317
- Analysis of a White-Light Flare Spectrum
R. Boyer, M. E. Machado, D. M. Rust, and P. Sotirovski **98**, 255

Multiwavelength Analysis of a Well Observed Flare from SMM

P. MacNeice, R. Pallavicini, H. E. Mason, G. M. Simnett, E. Antonucci, R. A. Shine, D. M. Rust, C. Jordan, and B. R. Dennis **99**, 167

Flares, Stellar

Stellar and Solar Flares

E. Schatzman **1**, 411

Upper Limits in the Toroidal Component of Force-Free Magnetic Fields in Stellar Atmospheres in the Context of

Solar and Stellar Flares

Klaus Jockers **50**, 405

Solar and Stellar Flares (*Invited Review Paper*)

D. J. Mullan **54**, 183

The Optical Continuum of Solar and Stellar Flares

M. A. Livshits, O. G. Badalyan, A. G. Kosovichev, and M. M. Katsova **73**, 269

The $H\alpha/H\beta$ Ratio in Solar Flares

Harold Zirin, Margaret Liggett, and Alan Patterson **76**, 387

Flares, Sympathetic (see Flares)**Flares, Waves (see Flares; Waves, Modes)****Flares, White-Light (see Flares)****Frontispieces**

The solar corona observed by the Surveyor I spacecraft 16 minutes after sunset on the Moon on 14 June 1966.

L. D. Jaffe, Surveyor Project Scientist, Jet Propulsion Laboratory, Pasadena, Calif., U.S.A. **1**, 2

The active region of 7 July 1966 observed on 6 July, several hours before the proton flare of 7 July.

Richard R. Fisher **1**, 170

$H\alpha$ spectroheliograms showing loop-type prominences in post-maximum phase of cosmic ray flare, west limb, July 20, 1961.

Helen Dodson-Prince, McMath Hulbert Observatory, University of Michigan **1**, 302

Isodensitracing of a flare observed on September 17, 1966 at 09^h 50^m 00^s UT.

M. Dizer, Kandilli Observatory **2**, 2

Spectrostratoscope, balloon-borne solar telescope with high-resolution spectrograph.

Fraunhofer Institute, Freiburg **2**, 132

The first Soviet Stratospheric Solar Station after launching at November 1, 1966.

V. A. Krat, Pulkovo Main Astronomical Observatory **2**, 248

Some spectra obtained with the Pulkovo coronagraph (Prokofijeva): $H\alpha$ in the chromosphere and the coronal line 5303 Å.

V. A. Krat **2**, 384

Participants in the Bilderberg Conference on the Structure of the Quiet Photosphere.

O. Gingerich and C. de Jager **3**, 2

Solar granulation at radius vector 0.8.

J. M. Beckers, Sacramento Peak **3**, 242

Coronal Photograph from the 1966 Total Solar Eclipse Expedition of the High Altitude Observatory, National Center for Atmospheric Research.

Gordon Newkirk, Jr., High Altitude Observatory, Boulder, Colo., U.S.A. **3**, 366

Photograph of the solar corona taken with balloon-borne equipment at 30 km altitude, 7 February 1968.

A. Dollfus, B. Fort, and C. Morel, Laboratoire 'Physique de Système Solaire' de l'Observatoire de Meudon **3**, 498

Chromospheric structures and photospheric granulation photographed through a Lyot filter (passband 0.5 Å) at $H\alpha + 0.75$ Å with the domeless Coudé refractor Anacapri.

K. O. Kiepenheuer, Fraunhofer Institut, Freiburg **4**, 2

The newly built coude type solar telescope of the Tokyo Astronomical Observatory's Okayama Station.

K. Osawa, Tokyo Astronomical Observatory **4**, 130

Emissions coronales à 6374 Å (Fe X). En haut, système d'arches coronales photographiées le 12 Novembre 1967 au bord est.

J. Rösch, Pic-du-Midi **4**, 266

The Sacramento Peak tower telescope under construction; 6 March 1968.

J. W. Evans, Sacramento Peak Observatory 4, 378

The white-light flare of 23 May 1967.

J. W. Evans, Sacramento Peak Observatory 5, 2

Active region in the NE quadrant of the solar disk on 15 September 1966 at 8^h 12^m, showing an outstanding supergranular structure, with a big spot inside one of the supergranular cells.

Boris Valniček, Ondřejov Observatory, Czechoslovakia 5, 130

Comparison des émissions de l'hélium (D3) et l'hydrogène (H α) dans une protubérance photographiée le 31 août 1967.

J. Rösch, Observatoire de Pic-du-Midi 5, 258

George Ellery Hale.

5, 434

The sun seen in H- α through a 0.5 Å passband filter (Halle), 19 September 1966.

J. W. Evans, Sacramento Peak Observatory 6, 2

The OSO-III Satellite.

John C. Brandt, Goddard Space Flight Center, Greenbelt, Md., U.S.A. 6, 170

Solar Flare (importance 2) January 6, 1968, photographed with a Halle filter in H α -0.5 Å.

Mt. Wilson and Palomar Observatories 6, 338

Spectroheliograms of an area near the center of the disk made in the CN band head at λ 3883 and in the core of the Ca II K-line at λ 3934, July 30, 1968 using the 82-cm solar image provided by the McMath Solar Telescope on Kitt Peak.

W. L. Bailey and N. R. Sheeley, Jr. 7, 2

White light picture taken with the 30 cm horizontal telescope of the Sacramento Peak Observatory.

J. W. Evans, Sacramento Peak 7, 166

H α filtergrams of a sunspot showing Ellerman bombs and the chromospheric Evershed effect.

J. M. Beckers and P. E. Tallent, Sacramento Peak Observatory 7, 342

Just as the sun set behind the Flatirons observer G. McFadyen was able to climb to a suitable spot on the sky-line to be photographed in the center of the disk (Dec. 1968).

R. H. Olson, ESSA Research Laboratories, Boulder, Colo., U.S.A. 8, 2

X-ray photograph of the sun with a solar flare, taken by a rocket-borne X-ray telescope on 8 June 1968.

G. S. Vaiana, American Science & Engineering 8, 254

La raie 3388 Å du Fer XIII photographiée par J.-P. Rozelot à l'Observatoire du Pic-du-Midi le 1^{er} Juin 1968 vers 10h.

J.-P. Rozelot 9, 2

Selected 1-sec frames of the 80 MHz radioheliograph record of the event of November 22, 1968.

J. P. Wild, Radio Physics Laboratory, CSIRO 9, 258

On 15 October 1969, the Sacramento Peak Observatory, Sunspot, N.M., dedicated their solar vacuum tower telescope.

Air Force Cambridge Research Laboratories 10, 2

Solar Corona photographed September 22, 1968 at Yurgamyst, Siberia, by Professor Dr. M. Waldmeier.

M. H. Waldmeier, Zurich Federal Observatory 10, 242

Evolution d'un champ photosphérique de 12" x 12" entre 8h 15 et 8h 50 TU le 11 juin 1967.

A. Carlier, F. Chauveau, M. Hugon, and J. Rösch, Observatoire du Pic du Midi 11, 2

A crown of filaments, typical for the minimum phase of solar activity, 4 October 1966.

Boris Valniček, Ondřejov Observatory, Czechoslovakia 11, 182

The solar corona seen in Fe XIV, 5303 Å.

J. W. Evans, Sacramento Peak Observatory 11, 346

Solar wiggly-line spectrogram, obtained at the Sacramento Peak Observatory. Lines: Ca 5188.85 Å, Ti II 5188.70 Å and Fe 5187.92 Å.

J. W. Evans 12, 2

La couronne solaire du 22 Sept. 1968 à 11h 20 T.U.

M. Laffineur, Institute d'Astrophysique, Paris, France 12, 174

The importance 2b flare photographed with the 40 cm refractor (f/12.5) of the National Observatory of Athens on 2 November 1968, by means of an H α filter, pass band 0.5 Å.

C. J. Macris 12, 350

- Mercury crossing Sun's disc on 9 May 1970, taken by V. Croce at the solar tower at the Osservatorio Astronomico de Roma.
M. Cimino **13**, 2
- The solar corona photographed in tangentially and radially polarized light during the eclipse of 7 March 1970.
S. Koutchmy and M. Laffineur, Institut d'Astrophysique de Paris, C.N.R.S. **13**, 250
- Prominence observed on April 28, 1969, in the seventh order Ca II K-line with the McMath Solar Telescope.
W. Livingston and Y. Öhman **14**, 2
- The flare of July 6, 1968 at Ni2 E90 observed in integral light at the Solar Tower of the Rome Observatory.
V. Croce **14**, 254
- The Mercury transit observed before the first contact on May 9, 1970.
Oslo Solar Observatory **15**, 2
- Spectrum of a prominence in Ca⁺ K 3933 Å on the west limb (PA = 66°6) taken June 5, 1969 (1412 MST).
W. C. Livingston, Kitt Peak **15**, 260
- Ca⁺ K, He D₃, and H α spectra of a prominence at the west limb (heliographic PA = 66°6) taken on the 82-cm image with the slit placed radial to the limb. Taken June 4, 1969 (1504 MST).
W. C. Livingston **16**, 2
- George Ellery Hale examined the coudé image at the Big Bear Solar Observatory.
Harold Zirin **16**, 252
- Prof. M. G. J. Minnaert (1893-1970).
17, 2
- Longitudinal magnetic field photograph of the Sun taken with a 61 cm vacuum telescope and spectrograph by the Aerospace Corporation, San Fernando Observatory on 29 September 1969 at 1955 UT.
E. B. Mayfield **17**, 286
- Granulation photosphérique, domaine 5800 Å.
A. Carlier, F. Chauveau, M. Hugon, and J. Rösch, Observatoire du Pic du Midi **18**, 2
- Surge-flare, May 22, 1970.
H. Zirin, California Institute of Technology, Pasadena, Calif., U.S.A. **18**, 194
- Two sections of the spectrum of a sunspot obtained with the McMath Solar Telescope at Kitt Peak.
John W. Harvey **18**, 346
- Solar seeing in Roma. Picture taken at the Monte Mario Observatory.
M. Cimino **19**, 2
- Eruptive loop, August 3, 1970.
H. Zirin, California Institute of Technology, Pasadena, Calif., U.S.A. **19**, 288
- West limb prominence system on March 6, 1970, photographed through a 4-in. dual coronagraph (H α and λ 5303).
D. LaForge, T. Pope, and R. Bishop, Haleakala Observatory, University of Hawaii **20**, 2
- H α photo 26 October 1969 with the new telescope Ishak-I at Big Bear Observatory.
H. Zirin **20**, 248
- Intensity distribution of the Sun as recorded in Mg II K Light on May 20, 1968 with a rocket-borne spectroheliograph.
K. Fredga **21**, 2
- Eclipse spectrum obtained 2.4 s after second contact on March 7, 1970 at Puerto Escondido, Mexico.
M. Kanno, T. Tsubaki, and H. Kurokawa, the Kwasan and Kida Observatories, University of Kyoto, Japan **21**, 258
- A Guide to Solar Physical Processes.
S. Kahler, Naval Research Laboratory **22**, 2
- Part of the Sun photographed 7/8 Å redward of H α , February 13, 1971, with the new vacuum solar telescope of Sacramento Peak Observatory.
R. W. Dunn **22**, 256
- Photographs of solar granulation taken by V. N. Karpinsky and L. M. Pravdjuk (Pulkovo Observatory) on Sept. 14, 1969.
V. A. Krat **23**, 2
- A frame from the series of films obtained during the flight of the Solar Stratospheric Station on July 30, 1970.
V. A. Krat, Pulkovo **23**, 256
- High resolution H α picture of a filament showing the fibril structure surrounding the filament and some trace of internal structure.
Sara F. Martin, Lockheed Solar Observatory **24**, 2

- A transient event in the outer corona was recorded on December 14, 1971 by the white-light coronagraph aboard NASA's seventh earth-orbiting solar observatory, OSO-7.
G. E. Brueckner, M. J. Koomen, and R. Tousey, Naval Research Laboratory **24**, 254
- Fine structure in the longitudinal component of magnetic fields associated with a sunspot located near the center of the disk when photographed at 1843 UT on 9 January 1971.
D. Vrabec and T. J. Janssens, San Fernando Observatory, The Aerospace Corporation **25**, 2
- Prominence on W limb (PA 233°), 24 April 1971 (1516 UT). Radial slit, Ca⁺K 3933.
William C. Livingston, Kitt Peak **25**, 266
- A large sunspot observed close to the edge of the Moon during the partial eclipse of 1971, February 25.
J. Bönes, Oslo Solar Observatory **26**, 2
- Part of the Sun photographed 1971, February 2, 7/8 Å violetward of H α .
R. W. Dunn, Sacramento Peak Observatory **26**, 262
- Prominence pictures obtained with a tunable filter of 1/4 Å bandpass, August 16, 1968, 9^h 56^m UT, tuned from H α -2Å to H α 2Å
 α -2Å to α +2Å.
M. Waldmeier **27**, 2
- Couronne Solaire le 13 Septembre 1971 à 11h 04m.
A. Dollfus, F. Colson, and J. Cosme **27**, 250
- An enlargement of one of the exposures of the Sun in the L α line during a rocket flight on 10 July, 1972.
D. K. Prinz, Naval Research Laboratory, Washington, D.C., U.S.A. **28**, 2
- Sequence showing flare development in H α and X-Rays (3-60 Å) during the 5 minutes of rocket flight on 4 November 1969 at 20:27 UT.
G. Vaiana *et al.*, Solar Physics Group, AS&E **28**, 270
- One of the first solar maps observed with the 100 m-telescope in Effelsberg on Oct. 31, 1972 at 3 cm wavelength.
O. Hachenberg **29**, 2
- Variations in the flares from the corona. Pictures obtained by a stratospheric balloon at an altitude of 32 000 m. Laboratoire: 'Physique du Système Solaire', Observatoire de Meudon.
A. Dollfus, F. Colson, and J. Cosme **29**, 274
- The great flare of August 2, 1972 (H α centerline).
Big Bear Solar Observatory **30**, 2
- Positive print time sequence of April 11, 1973 class 2B flare. Taken with a 1/2 Å birefringent filter centered at D₃, 5876 Å.
H. Ramsey, Lockheed Solar Observatory **30**, 282
- The large unexpected flare of 29 July 1973.
T. Pettauer, Sonnenobservatorium Kanzelhöhe, Austria **31**, 2
- Two H α spectra with rather unusual features, obtained during the EPL-event at the east limb on June 10, 1973 at the Swedish Astrophysical Station in Anacapri.
N. Olander **31**, 278
- The total solar eclipse of 30 June 1973, photographed at Loiyengalani, Kenya, by a research team from the High Altitude Observatory of the National Center for Atmospheric Research.
G. Newkirk, Jr. **32**, 2
- EUV spectroheliograms made in the 284 Å line of Fe XV by the Goddard Space Flight Center instrument on OSO-7.
W. M. Neupert *et al.*, Laboratory for Solar Physics, NASA **32**, 282
- The solar corona at the eclipse of June 30, 1973, photographed in light of 5500 to 6600 Å at 10^h49^m14^s UT.
M. Kanno, Kwasan and Hida Observatories, University of Kyoto **33**, 2
- Flash spectrum at the west limb. Photographed at 2.9 s before third contact, 30 June, 1973.
M. Kanno, Kwasan and Hida Observatories, University of Kyoto **33**, 264
- Six panels of an active region observed simultaneously at wavelengths 6521 Å (continuum), 8468 Å (magnetic fields and velocities), 8542 (Ca II), 6563 Å (H α) and 10830 Å (He I), taken at the Sacramento Peak Observatory Solar Tower, 21 December 1973.
David M. Rust **34**, 2
- Photograph of a sunspot in K-line with a Halle birefringent filter, 0.3 Å half-band width taken July 5, 1973 at 17:01:46, 10-inch refractor.
Big Bear Solar Observatory **34**, 274
- High dispersion spectrogram of the center of the disk taken by J. W. Evans. Wavelength range 3882.3 to 3889.0 Å.
Sacramento Peak Observatory **35**, 2

- Quiescent prominence observed simultaneously in the violet and red wing of the Ca II K-line (band width 0.3 Å).
Observation by O. Engvold, 22 February 1974.
Sacramento Peak Observatory **35**, 240
- Partial solar eclipse of the Sun, 1972 June 10, photographed in H α light.
Big Bear Solar Observatory **36**, 2
- The solar corona and comet Kohoutek, photographed at 0845 GMT 27 December 1973 by the High Altitude Observatory white light coronagraph experiment on the Skylab.
R. MacQueen, J. Gosling, E. Hildner, R. Munro, A. Poland, and C. Ross **36**, 248
- A solar active region 11 June 1972, 16:40:55 UT, photographed at H α minus 0.9 Å.
Big Bear Solar Observatory **37**, 2
- Bipolar sunspot group photographed in H α , 20:11:15 UT, May 21, 1972.
Big Bear Solar Observatory **37**, 270
- The novel use of colour applied to solar radio dynamic spectra in the 24 to 74 MHz band of the Culgoora radiospectrograph.
S. Suzuki **38**, 2
- Slowly varying and oscillatory velocity fields in the solar photosphere. Velocitygrams taken in the Fe I λ 6495 line.
David K. Lynch, San Fernando Observatory, The Aerospace Corporation, Los Angeles, Calif., U.S.A. **38**, 282
- Prominence observed in 1973, July 19 and 20, by the Swedish private astronomer Lennart Dahlmark, Hergrårdsvägen 22, 12163 Johanneshov, with his home-made coronagraph.
Y. Öhman **39**, 2
- Bright flashes in the August 2, 1972 flare 18:39:40 UT, Lasting 5 to 10 seconds.
H. Zirin and K. Tanaka, Big Bear Solar Observatory **39**, 274
- Enlarged view of a sunspot taken July 2, 1973, 20:25:30. Note complex umbral structure.
Big Bear Solar Observatory **40**, 2
- Last stages of the great proton flare of August 7, 1972 (15:15:00 UT), photographed in H α minus 0.5 Å. Note the bright postflare loops in the center.
Big Bear Solar Observatory **40**, 256
- Solar spicules seen in H α plus 0.8 Å, April 30, 1972, 20:09:15 UT.
Big Bear Solar Observatory **41**, 2
- Photograph of a sunspot in Ba II 4554 + 0.05 Å line with a tunable birefringent filter, 0.08 Å half-band width, taken July 13, 1974, 03 55 UT at 20" coronagraph, Sayan Observatory SibIZMIR. (Observation by V. I. Skomorovsky).
V. E. Stepanov **41**, 254
- Examples of slitless echelle-spectrograms, taken at the 1973 June 30 eclipse at Atar, Mauritania.
J. Houtgast and O. Namba, The Astronomical Institute at Utrecht **42**, 2
- Sequential filtergrams of active coronal regions taken in the light of H α , Fe X, and Fe XIV often indicate a line of sight superposition of greatly-differing physical regimes.
William J. Wagner, Sacramento Peak Observatory **42**, 278
- K. O. Kiepenheuer.
43, 2
- Filtergram of McMath region 336 taken on 8 May 1973 with the Zeiss Universal Birefringent Filter and the Sacramento Peak Vacuum Telescope. Wavelength: magnesium b_1 + 0.4 Å.
J. M. Beckers **43**, 270
- The coronal transient event of 10 June 1973, photographed at approximately 0943 GMT by the High Altitude Observatory white light coronagraph experiment on the Skylab.
R. MacQueen, J. Gosling, E. Hildner, R. Munro, A. Poland, and C. Ross **44**, 2
- Intense kilometric solar type III burst extending down to 20kHz as received on Stanford University VLF radio experiment on the OGO-3 spacecraft (2 September 1966).
N. Dunckel **44**, 256
- Photograph of a solar flare in H β 4861 Å line with the filter, 0.09 Å half-band width, taken July 2, 1974, 2.55. (Observation by V. I. Skomorovsky).
V. E. Stepanov, SibIZMIR, Irkutsk-33 **45**, 2
- Simultaneous spectral and H α filtergram observation of a surge and a spray prominence demonstrates the difficulty of the detection of sprays, even at the solar limb. (Observation by J. E. Coleman).
William J. Wagner, Sacramento Peak Observatory **45**, 274

- A full-disc spectroheliogram made with the CU spectrometer on OSO-8 in the Si IV 1393 Å line on 1975, July 28 and simultaneous spectroheliograms of an active region made with the CNRS spectrometer on OSO-8 in Ly α , Ly β , Ca K, Mg k Lines.
Oran R. White and Philippe Lemaire 46, 2
- The Solar corona and Moon on 30 June 1973, 1200 GMT, photographed by the High Altitude Observatory white light coronagraph experiment on the Skylab.
R. MacQueen, J. Gosling, E. Hildner, R. Munro, A. Poland, and C. Ross 46, 274
- Leen de Feiter 1927-1975.
47, 2
- Loop system following the September 10, 1974 class 2B solar flare observed at H α + 0.9 Å with the Zeiss Universal Birefringent Filter and the Sacramento Peak vacuum telescope.
J. M. Beckers 47, 434
- Spectrum in Ca⁺ K 3933 Å of the chromosphere plus a prominence. The slit was normal to the Limb at PA = 243°. (14 August 1973).
W. C. Livingston, Kitt Peak 48, 2
- Spectrum of the great sunspot and light bridge of 4 July 1974, Fe I 5250.217 Å. Direct measurement of the Zeeman splitting yields a field strength of 4130 gauss. McMath Telescope, Kitt Peak.
W. C. Livingston 48, 196
- Solar X-ray picture taken at 6-18 Å on 21 January 1974 by the Marshall/Aerospace experiment on Skylab.
J. Vorpahl and J. Underwood 49, 2
- September 10, 1974 class 2B solar flare observed in the center of the Helium D₃ line with the Sacramento Peak vacuum telescope using the Zeiss Universal Birefringent Filter.
J. M. Beckers 49, 210
- A fine looped limb flare photographed by David Kopriva.
Big Bear Solar Observatory 50, 2
- H α filtergrams of a sunspot and its 'superpenumbra'. Note the bright running penumbral waves especially well visible in the H α -0.3 Å filtergrams taken at 150 and 300 s. Filtergrams were taken with the Universal filter and the Sacramento Peak Observatory vacuum telescope.
J. M. Beckers 50, 238
- H α photograph of a sunspot, August 4, 1976 made at the Big Bear Solar Observatory.
E. Longbrake and A. Patterson 51, 2
- H α picture of the sun taken through the 40 cm vacuum telescope of the Fraunhofer Institut at Izara, Tenerife (14 August 1974).
J. Cassanovas 51, 256
- Filtergram (Mg I b₁ - 0.8 Å) of McMath region 336 taken on 8 May 1973 with the Zeiss Universal Birefringent Filter at the Sacramento Peak Vacuum Telescope.
J. M. Beckers 52, 2
- The solar corona of October 23, 1976, taken at Ballarat (Victoria, Australia).
M. Waldmeier and S. E. Weber 52, 242
- A composite figure showing a brightening of an X-ray loop that crossed the solar equator on 5 September 1973 after an H α flare spray and surge event.
American Science & Engineering, Inc. and Space Disturbances Forecast Center, Boulder, Colorado 53, 2
- Filtergram (H α Line) of McMath region 336 taken on 8 May 1973 with the Zeiss Universal Birefringent Filter at the Sacramento Peak Vacuum Telescope.
J. M. Beckers 53, 304
- Stepped spectra in Ca⁺ K 3933 Å of quiescent prominence at PA = 60°, 14 August 1971.
W. C. Livingston, Kitt Peak 54, 2
- Solar granulation near the center of the quiet Sun, showing a filigree structure inserted within intergranular lanes, Vacuum Solar Telescope, 25 September 1975.
S. Koutchmy, Sacramento Peak Observatory 54, 268
- Filtergram (Mg b₁ - 0.4 Å) of McMath region 336 taken on 8 May 1973 with the Zeiss Universal Birefringent Filter at the Sacramento Peak Vacuum Telescope.
J. M. Beckers 55, 2
- Filtergram (H α + 0.6 Å) of McMath region 336 taken on 8 May 1973 with the Zeiss Universal Birefringent Filter at the Sacramento Peak Vacuum Telescope.
J. M. Beckers 55, 276

- Filtergram of McMath region 336 taken on 8 May 1973 with the Zeiss Universal Birefringent Filter and the Sacramento Peak Vacuum Telescope; Sodium D2 -0.3 Å.
J. M. Beckers **56**, 2
- Granulation field around a small active region near the disk center, observed by I. Kawaguchi with the 50-cm refractor of the Pic-du-Midi Observatory on August 1, 1977.
J. Rösch **56**, 236
- Filtergram of McMath region 336 taken on 8 May 1973 with the Zeiss Universal Birefringent Filter and the Sacramento Peak Vacuum Telescope. Wavelength: Sodium D2 + 0.3 Å.
J. M. Beckers **57**, 2
- Using the 16-channel video-iso-tracer (VIT) of the Institut d'Astrophysique, Paris, spatially high-resolved spectra of the lines 5576 Å (magnetic insensitive line) and 6302.5 Å (triplet line, observed in left and right circularly polarized light) were processed to show isophotes. The line spectra were observed in a rosette in the network of the quiet Sun at disk-center using the vacuum tower-telescope of the Sacramento Peak Observatory.
S. Koutchmy and G. Stellmacher **57**, 244
- Soft X-Ray pictures of active regions interconnected through systems of magnetic field lines across the Equator. American Science and Engineering, Inc. Cambridge, MA **58**, 2
- Photographic representation of a photoelectric map of the line-of-sight component of the photospheric magnetic field on 11 March, 1978, showing an extraordinarily regular and similar spacing of active regions in the north and south hemispheres. Magnetogram taken at Kitt Peak National Observatory, Vacuum Telescope.
J. W. Harvey **58**, 214
- Development of a spray on the solar limb around U.T. midnight on 30 November/1 December 1972.
R. T. Hansen **59**, 2
- Very late phase of the major spotless two-ribbon flare of 29 July 1973, as seen in the center of the H α line more than 5 hr after the flare onset.
Big Bear Solar Observatory, California, U.S.A. **59**, 192
- Sunspots photographed by SSO on June 20, 1973.
The Soviet Solar Stratospheric Observatory (SSO) **60**, 2
- A filament in H α .
Sacramento Peak Observatory, New Mexico **60**, 212
- Active region with complex flare, July 12, 1978 at 16:45:10 UT. Filter band: 0.25 FWHM, centered on H α .
Big Bear Solar Observatory **61**, 2
- Mt. Wilson No. 20123, photographed in green continuum with the 65 cm vacuum reflector, Big Bear Solar Observatory.
California Institute of Technology, Pasadena, California **61**, 218
- Guglielmo Righini (1908-1978).
62, 2
- Surge near sunspot with satellite spots. Filtergram obtained with the 65 cm vacuum photoheliograph at Big Bear Solar Observatory, July 5, 1978, 20:35:58 UT. Filter band: 0.25 Å FWHM, centered on H α -0.8 Å.
Big Bear Solar Observatory **62**, 226
- Growing active region. Filtergram obtained with the 65 cm vacuum photoheliograph at Big Bear Solar Observatory, June 22, 1978, 20:07:59 UT. Filter band: 0.25 FWHM, centered on H α + 0.75 Å.
Big Bear Solar Observatory **63**, 2
- Mount Wilson No. 20550 photographed with the Kiepenheuer Institut's 40 cm vacuum reflector operated at Izana, Tenerife (2400 m) in collaboration with the Instituto de Astrofísica de Canarias, wavelength 5500 Å, showing a wealth of sub-granular fine structures.
Kiepenheuer Institut für Sonnenphysik, Freiburg im Br., F.R.G. **63**, 220
- Two-ribbon flare in He I D₃. Filtergram obtained with the 65 cm vacuum photoheliograph at Big Bear Solar Observatory, June 22, 1978, 18:03:47 UT.
Big Bear Solar Observatory **64**, 2
- The Stanford Solar Observatory.
J. M. Wilcox **64**, 200
- Sunspot group near the disc center observed on August 15, 1979 at Locarno with the Ø = 45 cm Vacuum Coudé Telescope of the Göttingen Observatory, in wavelengths 5818 Å < $\lambda\lambda$ < 5847 Å, H α + 1 Å, center band H α , and Ca⁺K.
E. Wiehr **65**, 2

- Quiescent prominence (filament) observed on the disk in center-line $H\alpha$ on May 18, 1978 from Big Bear Solar Observatory; telescope: 25 cm vacuum refractor.
H. Zirin **65**, 206
- Spectroheliogram in $H\alpha$ (bandpass = 60 mÅ, $\Delta\lambda = -0.5$ Å) obtained with the 28 cm vacuum telescope of the San Fernando Observatory during the solar eclipse of 12 October 1977 near the time of maximum obscuration at approximately 20:30 UT.
G. A. Chapman **66**, 2
- McMath Region 15266 during its passage over the eastern limb on 26 April, 1978. This filtergram was taken at the Ottawa River Solar Observatory with a Zeiss birefringent $H\alpha$ filter mounted in an unevacuated folded refractor of 25 cm aperture. Pass-band: 0.25 Å. Wavelength: $H\alpha$ -0.4 Å.
V. Gaizauskas, Herzberg Institute of Astrophysics **66**, 204
- S. I. Syrovatskii
67, 2
- Prominence observed on the limb in center-line $H\alpha$ on April 21, 1978 from Big Bear Solar Observatory; telescope: 25 cm vacuum refractor, filter bandwidth: 0.25 Å FWHM. The leftward portion is erupting.
H. Zirin **67**, 210
- Spectrum and slit jaw $H\alpha$ filtergram of a white light flare of 10 September 1974 class 2B taken at 21^h39^m09^s UT with the coronagraph at the Norikura Observatory.
E. Hiei **68**, 2
- The total solar eclipse of 16 February 1980, photographed at Palem, India, by a research team from the High Altitude Observatory of the National Center for Atmospheric Research, Boulder, Colorado, and Southwestern at Memphis College, Memphis, Tennessee.
High Altitude Observatory and Southwestern at Memphis **68**, 216
- Tilted K Ca II emission structures rather unusual for a spot umbra. Negative print of the spectrum obtained by N. M. Firstova and K. I. Nikolskaja at Sayan Observatory on August 11, 1978.
R. B. Teplitskaya, Sibizmiran, Irkutsk **69**, 2
- Spectroheliogram obtained at the San Fernando Observatory in the core of the λ 6302.5 Å line of Fe I. This interesting pair of sunspots in McMath region 16067 shows considerable complexity in the umbra and penumbra of the left spot. Photograph taken by Steve Thorman.
G. A. Chapman, California State University, Northridge **69**, 212
- Externally occulted coronagraph by A. Dollfus at Observatoire de Paris-Meudon. Automated sun-pointing gondola 'Astrolab' and tetrahedric plastic balloons of Centre National d'Etudes Spatiales.
A. Dollfus and Z. Mouradian **70**, 2
- Photographs of sunspot continuum near λ 4900 Å (group 218, Bulletin *Solnechny Dannye*) on (a) August 1, 1978, 09:38:28 UT, and (b) August 3, 1978, 09:07:42 UT.
V. N. Karpinsky, Astronomical Observatory, Kulkovo, U.S.S.R. **70**, 206
- Photographs of the real-time colour display of the acousto-optical radio spectrograph at Culgoora, N.S.W., Australia, showing a group of weak type I bursts and a group of strong type III bursts.
R. T. Stewart, T. W. Cole, C. F. Attwood, and C. J. Smith, Division of Radiophysics, CSIRO **71**, 2
- A sequence of 'difference images' shows the expansion and outward motion of an erupting prominence during 16:35-18:53 UT on May 24, 1979, taken with the Naval Research Laboratory coronagraph on the U.S. Space Test Program Satellite P78-1.
R. A. Howard, M. J. Koomen, D. J. Michels, and N. R. Sheeley, Jr. **71**, 202
- The solar corona of February 16, 1980 solar eclipse. Green emission corona and white light picture were taken at Jawal Gera, India, with 130/1950 millimeter telescope.
J. Sýkora and V. Rušin, Skalnaté Pleso and Lomnický Štít Observatories, Czechoslovakia **73**, 2
- Erratum* **76**, 399
- The red line corona at the total solar eclipse on February 16, 1980, photographed at the San Marco Project, Ngomeni, Kenya, by the Kwasan and Hida Observatories' Expedition (S. Saito, H. Kurokawa, and Y. Ogimachi), University of Kyoto, Japan.
S. Saito **73**, 216
- A bright flare ejection, June 6, 1979.
H. Zirin, Pasadena, Calif., U.S.A. **74**, 2
- An active region on the Sun, April 14, 1979.
H. Zirin, Pasadena, Calif., U.S.A. **74**, 292
- Spectrogram of fine structure of the solar photosphere, taken on August 1, 1978 with the Pamirs solar telescope.
V. N. Karpinsky, Pulkovo Observatory **75**, 2

Sun with limb flare, observed 28 August 1980 at 14:15 at Holloman Solar Observatory.

U.S. Air Weather Service, Solar Observing Optical Network **76**, 2

Filament, observed 28 August 1980, 11:14 UT, at Holloman Solar Observatory, Alamogordo, New Mexico, U.S.A.

U. S. Air Weather Service, Solar Observing Optical Network **76**, 202

Flare at limb, observed 28 August 1980 at 14:15 UT at Holloman Solar Observatory.

U.S. Air Weather Service, Solar Observing Optical Network **77**, 2

The solar corona photographed in white light at the eclipse of February 16, 1980 at Yellapur (India).

J. Dürst, Inst. für Astronomie, ETH, 8092 Zürich, Switzerland and S. Koutchmy, Inst. d'Astrophysique, CNRS, 75014 Paris, France **78**, 2

Loops after the two-ribbon flare of 16 May 1981 at 1006:35 UT and at 1006:58 UT, 1^h26^m following flare maximum (0839 UT).

O. Gerlei and L. Dezsö, Heliophysical Observatory, Debrecen, Hungary **78**, 200

An active region loop, March 31, 1979, at 22:23 UT.

H. Zirin, Pasadena, California, U.S.A. **79**, 2

A Complex flare in H α , August 26, 1979, 17:07 UT.

H. Zirin, Pasadena, California, U.S.A. **79**, 202

Post-flare loops in H α -1 Å, August 26, 1979, 19:41 UT.

H. Zirin, Pasadena, California, U.S.A. **80**, 2

Several interacting emerging flux regions, 10 W, December 4, 1979, 21:33 UT.

H. Zirin, Pasadena, California, U.S.A. **80**, 208

The 2B flare of 17 December 1980 (N06E02), observed at the Heliophysical Observatory at Debrecen (Hungary).

L. Dezsö **81**, 2

Large limb flare from 8 July, 08:00-09:30 UT occurring in the large irregular sunspot group observed at the Gregory-Coudé telescope of the Locarno solar station.

E. Wiehr, Göttingen and G. Stellmacher, Paris **81**, 206

Coeostat mirrors of the tower solar telescope at the Crimean Astrophysical Observatory.

Crimean Astrophysical Observatory **82**, 2

The X-Ray and H α Sun on 19 May 1979. The X-Ray image (21:07 UT) in the O VII line at 21.6 Å with the X-Ray Spectrometer/Spectroheliograph aboard the P78-1 satellite.

Aerospace Corporation **83**, 2

Two-ribbon flare of 3-4 September, 1982. The flares was observed from 23:34 UT on 3 September to 08:46 UT on 4 September.

H. Morishita and E. Hiei, Norikura Solar Observatory **83**, 190

Prominence spectrum obtained at Kitt Peak National Observatory. The spectrum is most curious in that the gas displays large systematic flows but little small-scale turbulence.

W. Livingston **84**, 2

False colour representation of the H α flare of December 17, 1980, 12:09 UT. Pictures were taken by the high-time resolution (1.4s) CCD-camera of the Institute of Applied Physics, University of Berne, Switzerland. Picture size is 2200 x 2900 km.

N. Kämpfer and W. Schöchlin **85**, 2

Erupting prominence observed 18 August 1980.

B. Rompolt, Astronomical Observatory, Wroclaw, Poland **85**, 192

Participants of the US-Japan Seminar on 'Recent Advances in the Understanding of Solar Flares' held at Komaba, Tokyo, 5-8 October 1982.

Unusual spiral form in white light sunspot observed at W27N3 on 19 February, 1982 by Frank Recely at the Vacuum Telescope, Kitt Peak.

W. Livingston, Kitt Peak National Observatory **87**, iv

The solar corona taken by M. Waldmeier at the total eclipse of July 13, 1981. Bratsk (USSR).

M. Waldmeier **87**, 205

Unusual flare shape in the Mg I b₂-line (5172 Å). Bandpass of filter about 0.7 Å centered on the Mg-line.

Photograph was obtained on 27 July, 1981 at 17:37:26 UT at the CSUN/San Fernando Observatory.

J. K. Lawrence **88**, iv

V. A. Krat (1911-1983)

89, No. 1, iv

- Active region, photographed July 3, 1971, 17:54 UT, at Big Bear Solar Observatory.
Prof. H. Zirin **89**, No. 2, ii
- A comet hits the Sun, July 27, 1981 at 01:36:18. (Real explanation: a surge observed at Big Bear at $H\alpha + 1 \text{ \AA}$).
Prof. H. Zirin, California Institute of Technology **90**, No. 1, iv
- Hale region 17751 observed with the 60 cm Domeless Solar Telescope (DST) at Hida Observatory, University of Kyoto on July 25, 1981. Passband of the Zeiss Lyot filter: 0.25 \AA . Wavelength: $H\alpha$ center.
Dr. Hiroki Kurokawa, Hida Observatory, Japan **90**, No. 2, ii
- Spicules near the limb, $H\alpha - 1 \text{ \AA}$.
Prof. H. Zirin, Big Bear Observatory, Calif., U.S.A. **91**, No. 1, iv
- Emerging field region, observed 3 July, 1971, 17:54:10 UT, with arch filaments coming up near to older spot.
 $H\alpha - 0.5 \text{ \AA}$. Emerging field region, observed 3 September 1971.
Prof. H. Zirin, Big Bear Observatory, Calif., U.S.A. **91**, No. 2, ii
- Selective bi-refringent filter (FPSS), Observatoire de Meudon, with FWMH = 0.13 \AA . Sunspot Evershed effect above the photosphere. Sunspot: July 29, 1981 at 09:20 UT, outside the D_1 line 5896 \AA . Radial velocities in the spot, photographic subtraction of 2 images taken at $\pm 0.11 \text{ \AA}$ from the D_1 5896 \AA .
Audouin Dollfus **92**, iv
- Series of flares in the large complex active region of July 1982, covering umbrae of sunspots.
O. Gerlei and I. Nagy, Debrecen Observatory **93**, No. 1, iv
- Flare in the eastern part of the large complex active region of July 1982.
O. Gerlei and I. Nagy, Debrecen Observatory **93**, No. 2, ii
- R. G. Giovanelli.
94, No. 1, iv
- The unusually large and complex active region of July 1982 and the associated giant filament longer than the solar radius.
L. Györi, Gyula station, Debrecen Observatory, O. Gerlei, and I. Nagy, Debrecen Observatory **94**, No. 2, ii
- Simultaneous images obtained in the $H\alpha$ profile with the new spectrograph attached to the 50 cm-refractor at Pic-du-Midi, October 19, 1983.
Observatoire du Pic-du-Midi et de Toulouse and Paris-Meudon Observatory **95**, No. 1, iv
- Facular points embedded in the granulation pattern around a sunspot near disk center, photographed June 4, 1980, through a filter $\lambda 4308 \text{ \AA}$, $\Delta\lambda 10 \text{ \AA}$ and active region, photographed September 28, 1979.
R. Muller, Obs. du Pic-du-Midi, 65200 Bangères-de-Bigorre, France **95**, No. 2, ii
- White-light flare of April 25, 1984. Full image of the Sun taken with an effective wavelength of 5100 \AA and time sequence of enlarged images.
T. Natori and E. Hiei, Tokyo Astronomical Observatory, Japan **96**, No. 1, iv
- Active region, photographed September 28, 1979.
R. Muller, Observatory du Pic-du-Midi **96**, No. 2, ii
- A splendid big surge extending more than $2.3 \times 10^5 \text{ km}$ high above the solar limb. Observed at west limb (heliocentric position angle 300°), 05:31:56 UT 22 July 1982 with the Domeless Solar Telescope at Hida Observatory.
Y. Funakoshi **97**, No. 1, iv
- Solar flare, photographed June 3, 1980.
R. Muller, Obs. du Pic-du-Midi **97**, No. 2, ii
- White light picture at 583 nm taken with the Swedish $f/75$ -25 cm solar tower telescope at Observatorio del Roque de los Muchachos on La Palma. Three prints of the same negative obtained at UT 09:54 on April 30, 1985 show a large number of umbral dots in a complex spotgroup.
Dr Ulf Dusoffsky **98**, No. 1, iv
- White light picture at 583 nm taken with the Swedish $f/75$ -25 cm solar tower telescope at Observatorio del Roque de los Muchachos on La Palma. Three prints of the same negative obtained at UT 08:01 on April 30, 1985 show a very dotted umbra.
Dr. Ulf Kusoffsky **98**, No. 2, ii
- $H\alpha + 0.7 \text{ \AA}$ sunspot and filigree, observed July 25, 1981 by Big Bear Solar Observatory.
Prof. H. Zirin **99**, iv
- Detail of the golden ceiling in the Golden Temple of Amristar, India, 18th century.
100, iv

Gamma Rays

OSO-III: Preliminary Scientific Results

John C. Brandt **6**, 171

High-Energy Proton, Helium, and Gamma-Ray Observations on OSO-III

M. F. Kaplon and D. Valentine **6**, 216

OSO-III High-Energy Gamma-Ray Experiment

W. L. Kraushaar, G. W. Clark, and G. Garmire **6**, 228

Solar Flare Optical, Neutron and Gamma-Ray Emission

R. E. Lingenfelter **8**, 341

A Search for Energetic Neutrons Emitted during Solar Flares

R. R. Daniel, G. S. Gokhale, G. Joseph, P. J. Lavakare, and B. S. Sekhon **10**, 465

On the Flux of Gamma Rays from Solar Flares

L. D. de Feiter **19**, 207

A Search for High Energy Gamma-Rays from Solar Active Regions

R. K. Sood **23**, 183

A Search for Neutrons of Solar Origin Using Balloon Borne Detectors 1967-69

C. J. Eyles, A. D. Linney, and G. K. Rochester **24**, 483

Neutron Propagation and 2.2 MeV Gamma-Ray Line Production in the Solar Atmosphere

H. T. Wang and R. Ramaty **36**, 129

A Search for Solar Neutrons during Solar Flares

S. O. Ifedili **39**, 233

Observations of Solar Gamma Ray Continuum between 360 keV and 7 MeV on August 4, 1972

A. N. Suri, E. L. Chupp, D. J. Forrest, and C. Reppin **43**, 415

The Relevance of Solar Flares to Astrophysics (*Invited Paper*)

P. A. Sturrock and J. W. Knight **47**, 401

Gamma-Ray and Microwave Evidence for Two Phases of Acceleration in Solar Flares

T. Bai and R. Ramaty **49**, 343

Non-Thermal Processes in Large Solar Flares

R. P. Lin and H. S. Hudson **50**, 153

The November 22, 1977 Solar Flare: Evidence for 2.23 and 4.43 MeV Line Emission from the Signe 2 MP Experiment

G. Chambon, K. Hurley, M. Niel, R. Talon, G. Vedrenne, I. V. Estuline, and O. B. Likine **69**, 147

Gamma Radiation and Photospheric White-Light Flare Continuum

H. S. Hudson and B. N. Dwivedi **76**, 45

2.2 MeV Gamma-Ray Line Observed during Two SN Solar Flares

K. R. Rao, I. M. Martin, J. O. D. Jardim, and U. B. Jayanthi **79**, 121

Atmospheric Internal Gravity Waves as a Source of Quasiperiodic Variations of the Cosmic Ray Secondary Component and Their Likely Solar Origin (*Invited Review*)

A. M. Galper, V. G. Kirillov-Ugryumov, N. G. Leikov, and B. I. Luchkov **82**, 447

Chromospheric Heating by Electron and Proton Bombardment in the Solar Flare of June 7, 1980

A. Gordon Emslie **84**, 263

A Flare Model Deduced from HINOTORI and Millimeterwave Interferometer Observations

Kin-Aki Kawabata, Hideo Ogawa, and Ikuro Suzuki **86**, 247

Gamma-Ray Observations from HINOTORI

M. Yoshimori, K. Okudaira, Y. Hirasima, and I. Kondo **86**, 375

High Energy Particle Acceleration in Solar Flares - Observational Aspects

E. L. Chupp **86**, 383

Gamma-Ray Lines and Neutrons from Solar Flares

R. Ramaty, R. J. Murphy, B. Kozlovsky, and R. E. Lingenfelter **86**, 395

Characteristics of Gamma-Ray Line Flares as Observed in Hard X-Ray Emissions and Other Phenomena

T. Bai, B. R. Dennis, A. L. Kiplinger, L. E. Orwig, and K. J. Frost **86**, 409

On the Relation between Solar-Flare Gamma-Ray Emission and Proton Escape into Interplanetary Space

V. V. Zaitsev and A. V. Stepanov **99**, 313

Energetic Ions in Solar γ -Ray Flares (*Invited Review Papers*)

Hugh S. Hudson **100**, 515

Geomagnetic Storms (*see Magnetosphere, Geomagnetic Disturbances*)**Granulation**

Amplitude Distributions of Solar Photospheric Fluctuations

Frank N. Edmonds, Jr. 1, 5

Photoelectric Photometry of Solar Granulation in Several Regions of the Continuum

G. Y. Vassiljeva 1, 16

Mise en évidence de la granulation solaire à 2000 Å

J. E. Blamont et G. Carpentier 1, 180

High-Resolution Measurements of Photosphere and Sunspot Velocity and Magnetic Fields Using a Narrow-Band Birefringent Filter

J. M. Beckers 3, 258

Color in Solar Granulation

John W. Evans 3, 344

A Solar Granulation Spectrogram

J. G. Kirk and W. Livingston 3, 510

On the Difference between the Photometric Inhomogeneities on the Solar Surface in Two Colors

G. Vassilyeva 4, 300

On the Energy Release by Magnetic Field Dissipation in the Solar Atmosphere

M. Kopecký and V. Obridko 5, 354

Inhomogeneities in the Solar Photosphere

Thomas E. Margrave, Jr. and Thomas L. Swihart 6, 12

Temperature Fluctuations in the Solar Photosphere

P. R. Wilson 6, 364

A Morphological Study of the Solar Granulation

O. Namba and W. E. Diemel 7, 167

The Effect of Finite Resolution on Solar Granulation

Steven Musman 7, 178

Heating of the Solar Corona

N. D'Angelo 7, 321

On Granulation Models

P. R. Wilson 8, 20

The Interpretation of Velocity Filtergrams. II: The Velocity and Intensity Field of the Central Solar Disk

J. M. Beckers and R. L. Parnell 9, 39

More on Granulation Models

Thomas E. Margrave, Jr. and Thomas L. Swihart 9, 315

On the Spectrum of Granular and Intergranular Regions

R. Howard and A. Bhatnagar 10, 245

Studies of Granular Velocities. I: Granular Doppler Shifts and Convective Motion

W. Mattig, J. P. Mehlretter, and A. Nesis 10, 254

The Interpretation of Velocity Filtergrams. III: Velocities Inside Solar Granules

J. M. Beckers and R. A. Morrison 14, 280

Studies of Granular Velocities. II: Statistical Analysis of Two High-Resolution Spectrograms

J. P. Mehlretter 16, 253 *Corrigendum* 18, 510

Measurements of the Oscillatory and Slowly-Varying Components of the Solar Velocity Field

N. R. Sheeley, Jr. and A. Bhatnagar 18, 379

Bright-Dark Asymmetry in Solar Granulation

Michael I. Parvey and Steven Musman 18, 385

On the rms Intensity Fluctuation of Solar Granulation

J. P. Mehlretter 19, 32

A Power Spectrum Analysis of Granular Intensity Fluctuations and Velocities

H. Reiling 19, 297

A Mechanism for the Exploding Granule Phenomenon

Steven Musman 26, 290

First Observations of the Granulation at 1.65 μ , Center to Limb Variation of the Contrast

P. J. Turon and P. Léna 30, 3

Statistical Analysis of a Solar Granulation Plate

Claude Aime **30**, 15

Studies of Granular Velocities. III: The Influence of Finite Spectral and Spatial Resolution upon the Measurement of Granular Doppler Shifts

J. P. Mehlretter **30**, 19

What is the Horizontal Scale of the 5-min Oscillations?

Charles L. Wolff **32**, 31

On the Structure of the Solar Photosphere

V. A. Krat **32**, 307

The Location of Exploding Granules

Marc S. Allen and Steven Musman **32**, 311

Solar Granulation, Limb Flux, and Oblateness

Robert S. Kandel and Stephen L. Keil **33**, 3

Fluctuations of Brightness and Vertical Velocity at Various Heights in the Photosphere

Richard C. Canfield and J. P. Mehlretter **33**, 33

The Solar Filigree

Richard B. Dunn and Jack B. Zirker **33**, 281

The Influence of a Photospheric Spectrum of Turbulence on the Profiles of Weak Fraunhofer Lines

Cornelis de Jager **34**, 91

Studies of Granular Velocities. V: The Height Dependence of the Granular Doppler Shifts

W. Mattig and H. Schlebbe **34**, 299

Studies of Granular Velocities. IV: Statistical Analysis of Granular Doppler-Shifts

W. Mattig and A. Nesis **36**, 3

On the Energy Distribution in Wavenumber Spectra of the Granular Velocity Field

Franz-Ludwig Deubner **36**, 299

The Origin of the Solar Five-Minute Oscillation

Steven Musman **36**, 313

Chromospheric Granulation

R. G. Giovanelli **37**, 301

Studies of Granular Velocities. VI: Changes in the Granular Velocity Field around Sunspots

W. Mattig and A. Nesis **38**, 337

Some Properties of Velocity Fields in the Solar Photosphere. V: Spatio-Temporal Analysis of High Resolution Spectra

Franz-Ludwig Deubner **39**, 31High-Resolution Photography of the Solar Chromosphere. XV: Preliminary Observations in Fe I $\lambda 6569.2$ R. J. Bray, R. E. Loughhead, and E. J. Tappere **39**, 323

On Convection in the Sun

Yu. V. Vandakurov **40**, 3

Inhomogeneous Model of the Photosphere

P. Turon **41**, 271

Spectral Analyses of Solar Photospheric Fluctuations. IV: The Low-Wavenumber Power of Granulation Brightness Fluctuations

Frank N. Edmonds, Jr. **44**, 293

Wave Systems in the Chromosphere

R. Giovanelli **44**, 299Visibility of the Photospheric Granulation in Fe I $\lambda 6569.2$ R. E. Loughhead and R. J. Bray **45**, 35

The Horizontal Variation of Temperature in the Low Solar Photosphere

Richard C. Altrock **47**, 517Convective Velocities Derived from Granule Contrast Profiles in Fe I $\lambda 6569.2$ R. J. Bray, R. E. Loughhead, and E. J. Tappere **49**, 3 *Erratum 55, 274 and Replacement Figure: Fig. 1 - 53, 547*

The Height Variation of Granular and Oscillatory Velocities

Richard C. Canfield **50**, 239

Studies of Granular Velocities. VII: Granular Velocities around Sunspots

W. Mattig and A. Nesis **50**, 255

- Spectral Analyses of Solar Photospheric Fluctuations. V: A Two-Dimensional Analysis of Granulation at the Center of the Disk
Frank N. Edmonds, Jr. and Kenneth H. Hinkle **51**, 273
- Morphological Properties and Origin of the Photospheric Facular Granules
R. Muller **52**, 249
- On a Possible Mechanism of Solar Faculae Heating
S. I. Vainstein, G. V. Kuklin, and V. P. Maksimov **53**, 15
- Comments on the Low-Wavenumber Power of Granulation Brightness Fluctuations
Claude Aime, Julien Borgnino, François Martin, and Gilbert Ricort **53**, 189
- A New Measurement of the Center-to-Limb Variation of the rms Granular Contrast
S. L. Keil **53**, 359
- Two-Dimensional Spatial Spectrum of the Photospheric Brightness Field near to the Solar Disc Center
V. N. Karpinsky and V. V. Mekhanikov **54**, 25
- The Wavelength Dependence of Granulation (0.38-2.4 μm)
F. Albrechtsen and T. Lynne Hansen **54**, 31
- A New Determination of the Granule/Intergranule Contrast
R. J. Bray and R. E. Loughhead **54**, 319
- Some Comments on the Limb Shift of Solar Lines. II: The Effect of Granular Motions
Jacques M. Beckers and George Driver Nelson **58**, 243
- Spicules: The Resonant Response to Granular Buffeting?
B. Roberts **61**, 23
- Studies of Granular Velocities. VIII: The Height Dependence of the Vertical Granular Velocity Component
C. J. Durrant, W. Mattig, A. Nesis, G. Reiss, and W. Schmidt **61**, 251
- Morphological Study of the Solar Granulation. I: Dark Dot Formation in the Cell
Reizaburo Kitai and Ichiro Kawaguchi **64**, 3
- Morphological Study of the Solar Granulation. II: The Fragmentation of Granules
Ichiro Kawaguchi **65**, 207
- Coherence Analysis of Granular Intensity
F. J. Kneer, W. Mattig, A. Nesis, and W. Werner **68**, 31
- Photospheric Line Asymmetry and Granular Velocity Models
S. L. Keil and F. H. Yackovich **69**, 213
- Determination of Fried's Parameter r_0 . Prediction for the Observed r.m.s. Contrast in Solar Granulation
G. Ricort, C. Aime, C. Roddier, and J. Borgnino **69**, 223
- Granulation and Supergranulation as Convective Modes in the Solar Envelope
H. M. Antia, S. M. Chitre, and S. K. Pandey **70**, 67
- A Comparison between Estimations of Fried's Parameter r_0 . Simultaneously Obtained by Measurements of Solar Granulation Contrast and of the Variance of Angle-of-Arrival Fluctuations
G. Ricort, J. Borgnino, and C. Aime **75**, 377
- Measurements of the Granule-Intergranular Contrast at 5200 Å and 6300 Å
C. E. Alissandrakis, C. J. Macris, and Th. G. Zachariadis **76**, 129
- The Wavelength Variation of the Granule/Intergranule Contrast
R. J. Bray **77**, 299
- Overstability of Acoustic Modes and the Solar Five-Minute Oscillations
H. M. Antia, S. M. Chitre, and D. Narasimha **77**, 303
- Short-Period Oscillations
F.-L. Deubner and J. Laufer **82**, 151
- An Estimation of the Fluctuations in the Extreme Limb of the Sun
Bruce W. Lites **85**, 193
- The Spatial Distribution of Umbral Dots and Granules
J. K. Lawrence **87**, 1
- Structure and Physics of Solar Faculae. IV: Chromospheric Granular Structure
C. Fang, Z. Mouradian, G. Banos, S. Dumont, and J. C. Pecker **91**, 61
- The Solar O I λ 7773 Triplet. I: Spatially Resolved Profiles
A. Kavetsky and B. J. O'Mara **92**, 47
- Morphological Study of the Solar Granulation. III: The Mesogranulation
Nobuyuki Oda **93**, 243

A Comparison of Artificial Solar Granules with Real Solar Granules

H. Wöhl and A. Nordlund **97**, 213

On the Contribution of Horizontal Granular Motions to Observed Limb-Effect Curves

Horst Balthasar **99**, 31

Solar Convection (*Invited Review Paper*)

Åke Nordlund **100**, 209

The Fine Structure of the Quiet Sun (*Invited Review Paper*)

R. Muller **100**, 237

Granulation, Chromospheric (*see Granulation*)
Granulation, Models (*see Granulation*)
Granulation, Photospheric (*see Granulation*)
Heating, Atmospheric
On the Origin of Spicules in the Chromosphere-Corona Transition Region

Max Kuperus and R. Grant Athay **1**, 361

Magneto-Gravity Waves and the Heating of the Solar Corona

Alden McLellan IV and F. Winterberg **4**, 401

On the Energy Release by Magnetic Field Dissipation in the Solar Atmosphere

M. Kopecký and V. Obridko **5**, 354

Heating of the Solar Corona

N. D'Angelo **7**, 321

On Frequency and Strength of Shock Waves in the Solar Atmosphere

Peter Ulmschneider **12**, 403

Chromospheric Heating above Supergranular Boundaries

Robert W. Milkey **14**, 62

Shock Wave Dissipation in Magnetically Active Regions

C. J. Durrant and Andrew G. Michalitsanos **18**, 60

Soft Solar X-Rays and Solar Activity. VI: Optical Identification of Activity Associated with X-Ray Background Fluctuations

Richard G. Teske **21**, 146

A Model for the Chromosphere-Corona Transition Region Based on Radio Observations and on Hydrodynamical Conservation Equations

P. Lantos **22**, 387

The Heating of the Solar Plasma Due to Microwave Phenomena Correlated with Type II Meter Bursts

E. Fürst **25**, 178

The Absence of Flares in $\lambda 3835$ and the Heating of the Chromosphere

Harold Zirin **26**, 393

Energy Balance in the Chromosphere-Corona Transition Region

Roger A. Kopp **27**, 373

A Model of the Quiet Solar Atmosphere

J. H. Piddington **27**, 402

The Effect of Mechanical Waves on Empirical Solar Models

Peter Ulmschneider and Wolfgang Kalkofen **28**, 3

Further Aspects of Weak Shock Theory Applied to the Solar Chromosphere

Stuart D. Jordan **30**, 327

Distribution of Temperature and Emission Measure in a Steadily Heated Solar Atmosphere

O. P. Shmeleva and S. I. Syrovatskii **33**, 341

Solar Atmospheric Heating

J. H. Piddington **33**, 363

Excess Heating of Corona and Chromosphere Above Magnetic Regions by Non-Linear Alfvén Waves

Yutaka Uchida and Osamu Kaburaki **35**, 451

Heated Solar Atmosphere: A One-Fluid Model

Egil Leer **35**, 467

High Resolution Spectroscopy of the Disk Chromosphere. IV: Evidence for the Propagation and Dissipation of Mechanical Energy in the Chromosphere

L. E. Cram **37**, 75

- Two-Fluid Model of the Solar Corona
J. W. Knight, C. E. Newman, and P. A. Sturrock 37, 183
- High Resolution Spectroscopy of the Disk Chromosphere. III: Upward Moving Disturbances as Observed in the Ca II K-Line Wings
J. M. Beckers and G. Artzner 37, 309
- Coronal Heating by Alfvén Waves
Donat G. Wentzel 39, 129
- Radiation Loss and Mechanical Heating in the Solar Chromosphere
Peter Ulmschneider 39, 327
- X-Ray Bright Points, Coronal Heating and the Solar Cycle
M. H. Gokhale 41, 381
- Wave Systems in the Chromosphere
R. Giovanelli 44, 299
- Heat Transfer in the Corona and Transition Region
R. G. Giovanelli 44, 315
- Energy Released by the Interaction of Coronal Magnetic Fields
N. R. Sheeley, Jr. 47, 173
- Observations of Quasiperiodic Variations in the Solar Flux at 10.7 GHz
L. W. Avery 49, 141
- Is the Solar 5 min Oscillation an Important Heating Mechanism for the Chromosphere and the Corona?
Peter Ulmschneider 49, 249
- Heating of the Solar Transition Zone and Corona
D. Vanbeveren and C. De Loore 50, 99
- Radiation Loss and Mechanical Heating in the Low Solar Chromosphere
F. Praderie and R. N. Thomas 50, 333
- Coronal Heating by Alfvén Waves, II
Donat G. Wentzel 50, 343
- Physical Processes Determining the Chromospheric Temperature Distribution
Stuart D. Jordan 51, 51
- An Explanation of the Observed Differences between Coronal Holes and Quiet Coronal Regions
A. G. Hearn 51, 159
- On the Role of Hydromagnetic Waves in the Corona and the Base of the Solar Wind
Donat G. Wentzel 52, 163
- Coronal Heating by Ion Acoustic Waves
P. Revathy 53, 445
- Do Surges Heat the Corona?
David M. Rust, David F. Webb, and William MacCombie 54, 53
- Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. I: Method
B. Schmieder 54, 269
- Current Sheets as the Source of Heating for Solar Active Regions
B. V. Somov and S. I. Syrovatskii 55, 393
- Wave Reflection and Wave Disorder in the Solar Transition Zone and Corona
Donat G. Wentzel 58, 307
- Temperature Distribution in the Transition Region and Inner Corona
Badré Alam, S. M. Razaullah Ansari, and Abdul Qaiyum 62, 93 *Errata* 67, 207
- On Radiative Dissipation of Sinusoidal Compressive Waves in the Chromosphere
R. G. Giovanelli 62, 253
- Non-Thermal Effects Associated with Steep Temperature Gradients in the Transition Zone
D. S. Spicer 62, 269
- Some Calculations Bearing on the Heating and Cooling of Quiescent Prominences
I. Lerche 63, 93
- On Spicules and the Stability Analysis of the Minimum Flux Corona Theory
W. van Tend 64, 229
- Heating of Coronal Loops by Fast Mode MHD Waves
Shadia Rifai Habbal, Egil Leer, and Thomas E. Holzer 64, 287
- Coronal Heating by Prominence Turbulence
W. van Tend 66, 29

- Thermal Stability of a Corona Heated by Fast Mode Waves
Ellen Zweibel **66**, 305
- The Thermal Statics of Coronal Loops
B. Roberts and S. Frankenthal **68**, 103
- Does H⁺ Truly Cool the Solar Chromosphere?
Thomas R. Ayres **68**, 125
- Non-Maxwellian Velocity Distribution Functions Associated with Steep Temperature Gradients in the Solar Transition Region. I: Estimate of the Electron Velocity Distribution Functions
Robert Roussel Dupré **68**, 243
- Propagation of Magnetically Guided Acoustic Shocks in the Solar Chromosphere
P. Foukal and M. Smart **69**, 15
- Alfvén Waves in the Solar Atmosphere. II: Open and Closed Magnetic Flux Tubes
Joseph V. Hollweg **70**, 25
- Redistribution of Energy by Vertical Oscillations in the Solar Atmosphere
R. K. Tavakol and A. S. Tworkowski **71**, 203
- Role of Plasma Flow in Determining Structure of the Chromosphere-Corona Transition Zone of the Sun
W. M. Glencross **73**, 67
- Energy Balance of the Corona and the Origin of Quasi-Stationary High-Speed Solar Wind Streams
V. A. Kovalenko **73**, 383
- Alfvén Waves in the Solar Atmosphere. III: Nonlinear Waves on Open Flux Tubes
Joseph V. Hollweg, Stephen Jackson, and David Galloway **75**, 35
- Tunneling and Interference to Alfvén Waves
Y. D. Žugžda and V. Locāns **76**, 77
- Enthalpy Flux Cooling of the Solar Corona
Steven G. Wallenhorst **77**, 167
- Enthalpy Flux Cooling of the Solar Corona. II: Applications to Closed Coronal Structures
Steven G. Wallenhorst **79**, 333
- Plasma Flow around Coronal Loops
Satoshi Hinata **80**, 173
- Thermally Isolated Coronal Loops in Hydrostatic Equilibrium
M. A. Wragg and E. R. Priest **80**, 309
- On Waves in Non-Isothermal, Compressible, Ionized and Viscous Atmospheres
L. M. B. C. Campos **82**, 355
- Heating of Chromospheric Magnetic Features by Direct Current Dissipation
Satoshi Hinata **87**, 95
- Transient Brightenings of Interconnecting Loops. III: Interpretation
Daniel S. Spicer and Zdeněk Švestka **87**, 271
- Coronal Heating and Photospheric Boundary Conditions
D. S. Spicer **88**, 43
- High-Frequency Coronal Oscillations and Coronal Heating
Jay M. Pasachoff and Donald A. Landman **90**, 325
- Photospheric Electric Current and Transition Region Brightness within an Active Region
A. D. DeLoach, M. J. Hagyard, D. Rabin, R. L. Moore, J. B. Smith, Jr., E. A. West, and E. Tandberg-Hanssen **91**, 235
- Alfvénic Resonant Cavities in the Solar Atmosphere: Simple Aspects
Joseph V. Hollweg **91**, 269
- A Heating Model for the Transition Zone and Inner Corona
Li Xiao Qing, Zhenda Zhang, and Zhang Youyi **91**, 289
- Chromospheric and Coronal Alfvénic Oscillations in Non-Vertical Magnetic Fields
Steven J. Schwartz, Paul S. Cally, and Nicole Bel **92**, 81
- Magnetic Fields and Thermal Structure of Solar Plasmas
G. Einaudi, G. Torricelli-Ciamponi, and C. Chiuderi **92**, 99
- On Heating of Solar Active Regions by Magnetic Energy Dissipation
Mukul Kumar and Udit Narain **95**, 69
- Observations of Steady Anomalous Magnetic Heating in Thin Current Sheets
P. C. H. Martens, G. H. J. Van Den Oord, and P. Hoyng **96**, 253

- Inhibition of Conductive Heat Flow by Magnetic Constriction in the Corona and Transition Region: Dependence on the Shape of the Constriction
J. F. Dowdy, Jr., R. L. Moore, and S. T. Wu 99, 79
- On Heating and Cooling in Some Active Region Loops
Udit Narain and Mukul Kumar 99, 111
- The Chromosphere and Transition Region - Current Status and Future Directions of Models
(*Invited Review Paper*)
R. Grant Athay 100, 256
- The Heating of Coronae (*Invited Review Paper*)
James A. Ionson 100, 289
- Heating, in Flares**
 - White Light Events as Photospheric Flares
Kazutoshi Najita and Frank Q. Orrall 15, 176
 - The Transfer of Lyman Continuum Radiation in Chromospheric Flares
Robert S. Kandel, Michael D. Papagiannis, and Federico M. Strauss 21, 176
 - Heating of the Solar Flare Plasma by High Energy Electrons
Chung-Chieh Cheng 22, 178
 - On the Aller's Admixture Radiation Effect during the Compression Process in the Solar Corona and Generation of Coronal Formations
R. E. Guseinov 28, 457
 - On the Ionization of Hydrogen in Optical Flares
John C. Brown 29, 421
 - A Kinematic Model of a Solar Flare
Y. Nakagawa, S. T. Wu, and S. M. Han 30, 111
 - The Temperature Structure of Chromospheric Flares Heated by Non-Thermal Electrons
John C. Brown 31, 143
 - The $H\alpha$ Flare as a Secondary Product of a Coronal Instability
Z. Švestka 31, 389
 - Theoretical Chromospheric Flare Spectra. II: Hydrogen Equilibrium for Brown's (1973) Models for Heating by Non-Thermal Electrons
Richard C. Canfield 34, 339
 - Comments on the Role of Conduction in Optical Flare Heating
John C. Brown 36, 371
 - Observations of Very Small Soft X-Ray Flares
W. M. Glencross, E. B. Dorling, and J. R. H. Herring 38, 183
 - Analysis of the August 7, 1972 White Light Flare: Its Spectrum and Vertical Structure
Marcos E. Machado and David M. Rust 38, 499
 - On the Low-Temperature Region of Chromospheric Flares
B. V. Somov and S. I. Syrovatskii 39, 415
 - Energy Build-Up and Release Mechanisms in Solar Wind and Auroral Flares
Tatsuzo Obayashi 40, 217
 - X-Ray Heating of a Low-Temperature Region in Chromospheric Flares
B. V. Somov 42, 235
 - White Light Flares: Protons or Electrons?
Paolo Cortellessa and Constantinos Paizis 42, 421
 - Heating and Cooling of the Thermal X-Ray Plasma in Solar Flares
Ronald L. Moore and Dayton W. Datlowe 43, 189
 - Expansion of Chromospheric Matter in the Gradual Phase of Solar Flares
K. Ohki 45, 435
 - Thermal Evolution of Current Sheets and Flash Phase of Solar Flares
J. Heyvaerts and E. R. Priest 47, 223
 - Problems in Relating the Optical and X-Ray Emissions from a Solar Flare
J. René Roy 48, 265
 - Mass Motions in a Heated Flare Filament
I. J. D. Craig and A. N. McClymont 50, 133
 - Non-Thermal Processes in Large Solar Flares
R. P. Lin and H. S. Hudson 50, 153

Introductory Talk, Location of the Primary Flare Site and Energy Transfer in Flares

J. C. Brown **53**, 263

Effects of Soft X-Ray Flux on the Lower Solar Atmosphere in Flares

J. C. Henoux and Y. Nakagawa **53**, 279

An Unstable Arch Model of a Solar Flare

Daniel S. Spicer **53**, 305

Electrostatically Unstable Heat Flow during Solar Flares and Its Consequences

D. S. Spicer **54**, 379

The Effect of Nonlinear Conduction on the Cooling of Flare Loops

K. R. Krall **55**, 455

EUV Structure of a Small Flare

Randolph H. Levine **56**, 185

Nonlinear Stage of Instability Due to Local Joule-Overheating in the Solar Active Regions

V. S. Sokolov and A. G. Kosovichev **57**, 73

The Inter-Relationship of Hard X-Ray and EUV Bursts during Solar Flares

A. Gordon Emslie, John C. Brown, and Richard F. Donnelly **57**, 175

The Characteristics of Impulsive Solar EUV Bursts

A. Gordon Emslie and Robert W. Noyes **57**, 373

H α Profiles from Electron-Heated Solar Flares

John C. Brown, Richard C. Canfield, and Matthew N. Robertson **57**, 399

Studies of Solar Flares Using Optical, X-Ray and Radio Data

H. Zirin **58**, 95

The Structure of the Temperature Minimum Region in Solar Flares and Its Significance for Flare Heating Mechanisms

Marcos E. Machado, A. Gordon Emslie, and John C. Brown **58**, 363

Lyman Continuum Observations of Solar Flares

Marcos E. Machado and Robert W. Noyes **59**, 129

Heat Transfer in Solar Flares

B. V. Somov **60**, 315

Soft X-Ray Emission and Chromospheric Flares

Marcos E. Machado **60**, 341

The Effects of Magnetic Structure on the Conduction Cooling of Flare Loops

Gerard Van Hoven **61**, 115

A Possible Observational Test to Distinguish between Slow and Transient Current Buildup Prior to Solar Flares

D. S. Spicer **64**, 121

The Heating of the Temperature Minimum Region in Solar Flares - A Reassessment

A. Gordon Emslie and Marcos E. Machado **64**, 129

Energy Release in Solar Flares

A. Gordon Emslie and David M. Rust **65**, 271

A Model of Hot Loops Associated with Solar Flares. I: Gasdynamics in the Loops

F. Nagai **68**, 351

Effect of Thermal Conduction and Radiation on the Dynamics of a Flaring Coronal Loop

S. T. Wu, L. C. Kan, Y. Nakagawa, and E. Tandberg-Hansen **70**, 137

First Phase Heating and Particle Acceleration during Solar Flares by Fast Tearing Modes

D. S. Spicer **71**, 115

Hydrodynamic Response of the Solar Chromosphere to an Elementary Flare Burst. I: Heating by Accelerated Electrons

B. V. Somov, S. I. Syrovatskii, and A. R. Spektor **73**, 145

Thermal Nonequilibrium: A Trigger for Solar Flares?

A. W. Hood and E. R. Priest **73**, 289

A Qualitative Interpretation of 7 August 1972 Impulsive Phase Flare H α Line Profiles

Richard C. Canfield **75**, 263

Gamma Radiation and Photospheric White-Light Flare Continuum

H. S. Hudson and B. N. Dwivedi **76**, 45

Slow-Shock Heating and the Kopp-Pneuman Model for 'Post'-Flare Loops

P. J. Cargill and E. R. Priest **76**, 357

Energetics of Two-Ribbon Solar Flares

G. W. Pneuman 78, 229

Temperature Minimum Heating in Solar Flares by Resistive Dissipation of Alfvén

A. Gordon Emslie and P. A. Sturrock 80, 99

A Continuous Spectrum of a White-Light Flare

Eijiro Hiei 80, 113

Dissipation and Stability of Return Currents in Solar Flares

John C. Brown and John Hayward 80, 129

Hydrodynamic Response of the Solar Chromosphere to an Elementary Flare Burst. II: Thermal Model

B. V. Somov, B. J. Sermulina, and A. R. Spektor 81, 281

Heat Balance for the High-Temperature Component of a Solar Flare

André Duijveman 84, 189

Chromospheric Heating by Electron and Proton Bombardment in the Solar Flare of June 7, 1980

A. Gordon Emslie 84, 263

Evolution of Electron and Proton Temperatures in a Flaring Loop. I: A Case of Thermal Heating of Electrons

F. Nagai, S. T. Wu, and E. Tandberg-Hanssen 84, 271

Thermal Evolution of Flare Plasmas

Tetsuya Watanabe, Katsuo Tanaka, Kyo Akita, and Nariaki Nitta 86, 107

Conductive Heat Flux in the Chromosphere Derived from Line Linear Polarization Observation

J.-C. Henoux, G. Chambe, D. Heristchi, M. Semel, B. Woodgate, R. Shine, and J. Beckers 86, 115

Energetic Electrons as an Energy Transport Mechanism in Solar Flares

A. Gordon Emslie 86, 133

Hydrodynamics of Flaring Loops: SMM Observations and Numerical Simulations

R. Pallavicini and G. Peres 86, 147

Dynamical Interpretation of the Very Hot Region Appearing at the Top of a Loop

Kazunari Shibata, Yutaka Uchida, and Takashi Sakurai 86, 345

Evolution of a Flaring Loop after Injection of Energetic Electrons

André Duijveman, Boris V. Somov, and André R. Spektor 88, 257

Energetics of a Compact Flare

Marcos E. Machado 89, 133

Heat Flux Saturation in Hydrodynamic Soft X-Ray Solar Flare Plasmas

I. J. D. Craig and J. W. Davys 90, 343

A Numerical Model of a Solar Flare Based on Electron Beam Heating of the Chromosphere

P. MacNeice, R. W. P. McWhirter, D. S. Spicer, and A. Burgess 90, 357

Initial Phase of Chromospheric Evaporation in a Solar Flare

E. Antonucci, B. R. Dennis, A. H. Gabriel, and G. M. Simnett 96, 129

The Relation between Hard X-Ray and Transition-Region Line Emission in Solar Flares

John T. Mariska and A. I. Poland 96, 317

On the Role of Energetic Particles in Solar Flares

R. Pérez-Enríquez 97, 131

Energetics of a Double Flare on November 8, 1980

J. G. Doyle, P. B. Byrne, B. R. Dennis, A. G. Emslie, A. I. Poland, and G. M. Simnett 98, 141

Kernel Heating and Ablation in the Impulsive Phase of Two Solar Flares

Cornelis de Jager 98, 267

The Structure of High Temperature Solar Flare Plasma in Non-Thermal Flare Models

A. Gordon Emslie 98, 281

Multiwavelength Analysis of a Well Observed Flare from SMM

P. MacNeice, R. Pallavicini, H. E. Mason, G. M. Simnett, E. Antonucci, R. A. Shine, D. M. Rust, C. Jordan, and B. R. Dennis 99, 167

Hard X-Ray Imaging Evidence of Nonthermal and Thermal Burst Components

Marcos E. Machado, Marta G. Rovira, and Cora V. Sneibrun 99, 189

Hydrodynamics
The Interaction of the Solar Wind with a Comet

L. Biermann, B. Brosowski, and H. U. Schmidt 1, 254

Generation of Acoustic and Gravity Waves by Turbulence in an Isothermal Stratified Atmosphere

Robert F. Stein 2, 385

- On the Stability of the Solar Wind
Klaus Jockers **3**, 603
- The Space Spectrum of Convective Instability
B. E. Žiljaev **6**, 351
- Non-Divergent Oscillations in the Solar Atmosphere
Walter L. Jones **7**, 204
- On the Gas Flow Due to Solar Flares
V. P. Korobeinikov **7**, 463
- Corotating Structure in the Solar Wind
R. L. Carovillano and G. L. Siscoe **8**, 401
- Meridional (North-South) Motions of the Solar Wind
G. L. Siscoe and L. T. Finley **9**, 452
- The Solar Differential Rotation and 'Rossby-Type' Waves
Shoji Kato and Y. Nakagawa **10**, 476
- Thermally Driven Motions in a Gravitational Atmosphere
R. J. Bessey and M. Kuperus **12**, 216
- Differential Rotation Caused by Anisotropic Turbulent Viscosity
H. Köhler **13**, 3
- Fluid Dynamics of Thin Solar Wind Filaments
G. L. Siscoe **13**, 490
- Unique Solutions of Solar Wind Models with Thermal Conductivity
E. J. Weber **14**, 480
- Inhomogeneous Convection and the Equatorial Acceleration of the Sun
B. R. Durney and I. W. Roxburgh **16**, 3
- Trapped Gravity Waves and the Five-Minute Oscillations of the Solar Atmosphere
John H. Thomas, Patricia André Clark, and Alfred Clark, Jr. **16**, 51
- The Outflow of Solar Wind from the Active Regions
G. S. Bisnovaty-Kogan and I. M. Gordon **18**, 133
- Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind
S. Grzędziński **21**, 225
- A Model for the Chromosphere-Corona Transition Region Based on Radio Observations and on Hydrodynamical Conservation Equations
P. Lantos **22**, 387
- Critical Point Regularity Conditions and Asymptotic Solutions to the Time Stationary, Linearized, Inhomogeneous Solar Wind Flow Problem
G. L. Siscoe and R. L. Carovillano **23**, 211
- Étude hydrodynamique du grand jet coronal NE observé à l'éclipse du 7 Mars 1970
S. Koutchmy **24**, 373
- Nonlinear Boussinesq Convective Model for Large Scale Solar Circulations
Peter A. Gilman **27**, 3
- The Asymptotic Behavior of the Supersonic Solutions of the Two-Fluid Solar Wind Equations
I. W. Roxburgh **27**, 478
- Convective Instability in a Compressible Atmosphere
S. M. Chitre and M. H. Gokhale **30**, 309
- Radiative Damping of Trapped Gravity Waves in the Solar Atmosphere
Patricia André Clark and Alfred Clark, Jr. **30**, 319
- On the Solar Tsunami
V. V. Kassinsky and V. A. Krat **31**, 219
- A Dynamical Model of the Corona
Stephen L. Browne and Robert J. Bessey **31**, 351
- On Some Results of Calculations of the Chromospheric Flare Initial Phase Model According to the Strong Gasdynamic Explosion Theory
R. E. Guseinov **31**, 401
- A Dynamical Model for the Chromosphere-Corona Transition Region
Claudio Chiuderi and Iacopo Riani **34**, 113
- Heated Solar Atmosphere: A One-Fluid Model
Egil Leer **35**, 467

- A Note on the Solution of the Saturation Flux Limited Solar Wind Equations
Ian W. Roxburgh 35, 481
- Response of an Optically Thin, Isothermal Atmosphere to a Convective Overshoot
Cheng-Jen Chen 37, 53
- Structures in a Non-Magnetic Solar Corona
Mark A. Cross and James V. Blockwood 38, 157
- On Convection in the Sun
Yu. V. Vandakurov 40, 3
- A New Shock Locus for Similarity Solutions in One-Dimensional Unsteady Gas Dynamics
R. E. Grundy 40, 227
- The Nature of the Sunspot Phenomenon. III: Energy Consumption and Energy Transport
E. N. Parker 40, 275
- On the Effect of Latitude Dependent Base Conditions on the Structure of the Solar Wind
I. W. Roxburgh and C. Singer 41, 241
- Partial Analysis of the Flare-Prominence of 30 April 1974
S. T. Wu, Murray Dryer, Patrick S. McIntosh, and Edwin Reichmann 44, 117
- Equilibrium Problems in a Rotating Convection Zone
Yu. V. Vandakurov 45, 501
- Wave Propagation in the Photosphere
Brigitte Schmieder 47, 435
- Dynamics of Coronal Hole Regions. I: Steady Polytopic Flows with Multiple Critical Points
Roger A. Kopp and Thomas E. Holzer 49, 43
- Interplanetary Disturbances in the Solar Wind Produced by Density, Temperature, or Velocity Pulses at 0.08 AU
S. T. Wu, Murray Dryer, and S. M. Han 49, 187
- Heating of the Solar Transition Zone and Corona
D. Vanbeveren and C. De Loore 50, 99
- Mass Motions in a Heated Flare Filament
I. J. D. Craig and A. N. McClymont 50, 133
- Two-Dimensional Stochastic Motions and the Problem of Differential Rotation
Günther Rüdiger 51, 257
- Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. I: Method
B. Schmieder 54, 269
- Convection in a Rotating Deep Compressible Spherical Shell: Application to the Sun
Gaetano Belvedere and Lucio Paternò 54, 289
- Thermally Conductive Flows in Coronal Holes
R. S. Steinolfson and E. Tandberg-Hanssen 55, 99
- Overstabilization of Acoustic Modes in a Polytopic Atmosphere
H. M. Antia, S. M. Chitre, and D. M. Kale 56, 275
- On the Collisional Theory of the Anisotropic Solar Wind Plasma
D. Summers 56, 429
- Waves in the Sunspot Penumbra
H. M. Antia, S. M. Chitre, and M. H. Gokhale 60, 31
- Convective Collapse of Flux Tubes
H. C. Spruit 61, 363
- Constraints on the Solar Coronal Temperature in Regions of Open Magnetic Field
Egil Leer and Thomas E. Holzer 63, 143
- Hydrodynamic Simulations of Flare/Surge Events
R. S. Steinolfson, E. J. Schmahl, and S. T. Wu 63, 187
- Siphon Flows in Coronal Loops. I: Adiabatic Flow
P. J. Cargill and E. R. Priest 65, 251
- On the Origin of Strong Downdrafts Associated with the Birth of Sunspots
Kazunari Shibata 66, 61
- Stability of a Steady Vertical Flow in a Viscous Fluid
H. M. Antia and S. M. Chitre 66, 71
- A Semi-Analytical Approach to Time-Dependent Coronal Expansion
Roger A. Kopp 68, 307

Granulation and Supergranulation as Convective Modes in the Solar Envelope

H. M. Antia, S. M. Chitre, and S. K. Pandey **70**, 67

The Dynamic Formation of Quasi-Static Active Region Loops

I. J. D. Craig and A. N. McClymont **70**, 97

Redistribution of Energy by Vertical Oscillations in the Solar Atmosphere

R. K. Tavakol and A. S. Tworkowski **71**, 203

Hydrodynamic Response of the Solar Chromosphere to an Elementary Flare Burst. I: Heating by Accelerated Electrons

B. V. Somov, S. I. Syrovatskii, and A. R. Spektor **73**, 145

Mass Motions in the Transition Region

Giannina Poletto **73**, 233

A Dynamical Mechanism through Which Variations in Solar Ultraviolet Radiation Can Influence Tropospheric Climate

J. R. Bates **74**, 399

The Stability and Uniqueness of Coronal Loops

I. J. D. Craig, T. D. Robb, and M. D. Rollo **76**, 331

Overstability of Acoustic Modes and the Solar Five-Minute Oscillations

H. M. Antia, S. M. Chitre, and D. Narasimha **77**, 303

Two Types of Jets and Origin of Macrospicules

Kazunari Shibata **81**, 9

Derivation of the Amplitude Equations of Acoustic Modes of an Unstable Semi-Infinite Polytrope (*Invited Review*)

Jean-Pierre Poyet **82**, 267

Evolution of Electron and Proton Temperatures in a Flaring Loop. I: A Case of Thermal Heating of Electrons

F. Nagai, S. T. Wu, and E. Tandberg-Hanssen **84**, 271

The Instability of Hydromagnetic Planetary-Gravity Waves in a Zonal Flow and Transverse Magnetic Field

O. M. El Mekki **85**, 83

Wave Propagation in Intense Flux Tubes

B. Roberts **87**, 77

Heat Flux Saturation in Hydrodynamic Soft X-Ray Solar Flare Plasmas

I. J. D. Craig and J. W. Davys **90**, 343

A Numerical Model of a Solar Flare Based on Electron Beam Heating of the Chromosphere

P. MacNeice, R. W. P. McWhirter, D. S. Spicer, and A. Burgess **90**, 357

Imaging

Solar Photography in the Extreme Ultraviolet

W. M. Burton **8**, 53

Selected 1-sec frames of the 80 MHz radioheliograph record of the event of November 22, 1968.

J. P. Wild, Radio Physics Laboratory, CSIRO **9**, 258

The Herschel Effect and Solar Photography

R. Jayanthan **12**, 163

High Resolution Solar Images at 10 Microns: Sunspot Detail and Photometry

P. J. Turon and P. J. Léna **14**, 112

A Simple Image Forming Technique Suitable for Multifrequency Observations of Solar Radio Bursts

G. Swarup and V. K. Kapahi **14**, 404

XUV Image of the Sun from Eclipse Observations of the Ionospheric E-Region

R. T. Marriott, D. E. St. John, R. M. Thorne, and S. V. Venkateswaran **21**, 483

The GSFC EUV and X-Ray Spectroheliograph on OSO-7

J. H. Underwood and W. M. Neupert **35**, 241

The novel use of colour applied to solar radio dynamic spectra in the 24 to 74 MHz band of the Culgoora radiospectrograph.

S. Suzuki **38**, 2

Use of Colour to Display the Circular Polarization in Solar Dynamic Spectra

S. Suzuki **38**, 3

Digital Enhancement of Solar X-Ray Space Photography

R. P. Chiralo **39**, 377

The Analysis and Interpretation of Solar X-Ray Photographs

J. H. Underwood and D. L. McKenzie 53, 417 *Erratum* 57, 485

Quantitative Analysis of Skylab X-Ray Pictures of the Sun by Means of Iterative Deconvolution

K. Maute and G. Elwert 70, 273

Time Variations of Hard X-Ray Bursts Observed with the Solar Hard X-Ray Telescope aboard HINOTORI

Takeo Kosugi and Saku Tsuneta 86, 333

Observations of Fine Time Structures in Solar Flare Hard X-Ray Bursts

K. Hurley, M. Niel, R. Talon, I. V. Estulin, and V. Ch. Dolidze 86, 367

Dynamic Behaviour of the *K*-Corona above a Type I Radio Source

R. A. Duncan 89, 63

Quantitative Analysis of Hard X-Ray 'Footpoint' Flares Observed by the Solar Maximum Mission

A. L. MacKinnon, J. C. Brown, and J. Hayward 99, 231

Imaging Properties of a Photoheliograph with a Lyot Plane Shutter

L. Györi 99, 365

Imaging, Extreme Ultraviolet (*see* *Imaging*)

Imaging, Infrared (*see* *Imaging*)

Imaging, Radio (*see* *Imaging*)

Imaging, Ultraviolet (*see* *Imaging*)

Imaging, X-Ray (*see* *Imaging*)

Instabilities

Currents in the Solar Atmosphere and a Theory of Solar Flares

H. Alfvén and P. Carlqvist 1, 220

The Nature of Quiescent Solar Prominences

Max Kuperus and Einar Tandberg-Hanssen 2, 39

Solar Flares as Resulting from the Temporary Interruption of Energy Flow to the Corona: a Case of Hydromagnetic Resonance

G. W. Pneuman 2, 462

The Stability of Force-Free Magnetic Fields with Cylindrical Symmetry in the Context of Solar Flares

Ulrich Anzer 3, 298

Convective Instability and Overstability in the Sunspot Umbra

Mamoru Saito'm and Shoji Kato 3, 531

Large Velocity Discontinuities in the Solar Wind

Leonard F. Burlaga 7, 72

Current Limitation and Solar Flares

P. Carlqvist 7, 377

Periodic Structures in Quiescent Prominences

Y. Nakagawa and J. McKim Malville 9, 102

Thermal and Dynamical Stability of Prominences

Y. Nakagawa 12, 419

Convective Instability of a Model Chromosphere

Richard J. Defouw 14, 42

Thermal Runaway as the Solar Flare Trigger Mechanism

S. W. Kahler and R. W. Kreplin 14, 372

Thermal Properties of the Solar Wind Plasma

Tsutomu Toichi 18, 150

A Pulsating Regime of Stream Instability and the Origin of 'Rain' Type Radio Bursts

V. V. Zaitsev 20, 95

Magnetically Trapped Particles in the Lower Solar Atmosphere

A. O. Benz and T. Gold 21, 157

Suppression of the Kink Instability for Magnetic Flux Ropes in the Chromosphere

M. A. Raadu 22, 425

A Physical Mechanism for the Production of Solar Flares

Hari K. Sen and Marvin L. White 23, 146

Note on Solar Plasma Irregularities and Plasma Instabilities

S. K. Alurkar **26**, 225

Thermal Instability of Coronal Neutral Sheets and the Formation of Quiescent Prominences

M. A. Raadu and M. Kuperus **28**, 77

Convective Instability in a Compressible Atmosphere

S. M. Chitre and M. H. Gokhale **30**, 309

Interpretation of Distinct Type IVmA- and IV μ -Bursts on the Basis of Micro-Instabilities and of Resonant Nonlinear Interaction of Waves

L. Mollwo **30**, 497

The Temperature Structure of Chromospheric Flares Heated by Non-Thermal Electrons

John C. Brown **31**, 143

The Formation of Solar Quiescent Prominences by Condensation

E. Hildner **35**, 123

On the Nature of Plasma Arcs in Solar Active Regions

Ryszard Gajewski **35**, 385

A Clue to the Trigger for Both the Type III Solar Radioburst and the Solar Flare

E. R. Priest and J. Heyvaerts **36**, 433

Structures in a Non-Magnetic Solar Corona

Mark A. Cross and James V. Blockwood **38**, 157

On the Propagation of the Electron Streams Generating Type III Bursts

D. B. Melrose **38**, 205

On Convection in the Sun

Yu. V. Vandakurov **40**, 3

The Nature of the Sunspot Phenomenon. IV: The Intrinsic Instability of the Magnetic Configuration

E. N. Parker **40**, 291

Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. I: Bernstein Modes and Plasma Waves in a Hybrid Band

V. V. Zheleznyakov and E. Ya. Zlotnik **43**, 431

Cyclotron Wave Instability in the Corona and the Origin of Solar Radio Emission with Fine Structure. II: Origin of 'Tadpoles'

V. V. Zheleznyakov and E. Ya. Zlotnik **44**, 447

Cyclotron Wave Instability in the Corona and the Origin of Solar Radio Emission with Fine Structure. III: Origin of Zebra-Pattern

V. V. Zheleznyakov and E. Ya. Zlotnik **44**, 461

Equilibrium Problems in a Rotating Convection Zone

Yu. V. Vandakurov **45**, 501

Type IV dm Bursts: Onset and Sudden Reductions

Arnold O. Benz and Jan Kuijpers **46**, 275 *Erratum/Replacement Figures: Figs. 6, 7 - 53, 547*

Report on the Solar Physics-Plasma Physics Workshop, held at Stanford University, 17-20 September 1974

P. A. Sturrock, P. J. Baum, J. M. Beckers, C. E. Newman, E. R. Priest, H. Rosenberg, D. F. Smith, and D. G. Wentzel (eds.) **46**, 411

On the Theory of the Type III Burst Exciter

Robert A. Smith, Melvyn L. Goldstein, and Konstantinos Papadopoulos **46**, 515

Current Sheet Models of Solar Flares (*Invited Paper*)

E. R. Priest **47**, 41

Considerations Concerning Flare Interpretations (*Invited Paper, Extended Abstract*)

Friedrich Meyer **47**, 77

The Role of Plasma Turbulence in the Development of Solar Flares (*Invited Paper*)

M. Kuperus **47**, 79

Kinetic Theory of MHD Instabilities in a Nonuniform Plasma

Akira Hasegawa **47**, 325

Solar Flares and Plasma Instabilities: Observations, Mechanisms and Experiments (*Invited Review Paper*)

Gerard Van Hoven **49**, 95

Skinning Process Stability of the Magnetic Field in the Solar Active Regions

V. S. Sokolov, S. S. Katsnelson, A. G. Kosovichev, and V. S. Slavin **51**, 293

- A Comment on the Acceleration of Charged Particles in the Presence of Micro-Turbulence as Related to Solar Flares
D. S. Spicer 51, 431
- Regulation of Solar Wind Heat Flux by Ordinary Mode Instability
G. S. Lakhina 52, 153
- Solar Wind Heating by Heat Conduction Driven Ion Acoustic Instability
P. Revathy and G. S. Lakhina 52, 471
- The Formation of Solar Prominences by Thermal Instability in a Current Sheet
E. A. Smith and E. R. Priest 53, 25
- The Thermal and Non-Thermal Flare: A Result of Non-Linear Threshold Phenomena during Magnetic Field-Line Reconnection
D. S. Spicer 53, 249
- An Emerging Flux Model for Solar Flares
J. Heyvaerts, E. R. Priest, and D. M. Rust 53, 255
- Theoretical Considerations on the Triggering of Flares, Discussion
E. R. Priest 53, 259
- An Unstable Arch Model of a Solar Flare
Daniel S. Spicer 53, 305
- Measurement of Plasma Wave Electric Fields in Solar Flares
W. D. Davis 54, 139
- Local Instabilities of Alfvén Waves in High Speed Streams
B. Bavassano, M. Dobrowolny, and G. Moreno 57, 445
- Ion Cyclotron Instability in the Solar Wind
G. S. Lakhina 57, 467
- The Structure of Coronal Loops
E. R. Priest 58, 57
- A Trigger Mechanism for the Emerging Flux Model of Solar Flares
T. J. Tur and E. R. Priest 58, 181
- Heating and Acceleration of α -Particles in the Solar Wind
P. Revathy 58, 397
- Conductivity of an Ion-Acoustically Turbulent Plasma
V. Krishan 59, 29
- Vertical Motions in an Intense Magnetic Flux Tube. II: Convective Instability
A. R. Webb and B. Roberts 59, 249
- Convective Collapse of Flux Tubes
H. C. Spruit 61, 363
- Convective Instability of Thin Flux Tubes
H. C. Spruit and E. G. Zweibel 62, 15
- Instability by Magnetic Buoyancy
D. J. Acheson 62, 23
- Magnetic Dips in the Solar Wind
M. Dobrowolny, B. Bavassano, F. Mariani, and N. Ness 62, 203
- Kink Instability of Solar Coronal Loops as the Cause of Solar Flares
A. W. Hood and E. R. Priest 64, 303
- Magnetic Instability of Coronal Arcades as the Origin of Two-Ribbon Flares
A. W. Hood and E. R. Priest 66, 113
- Thermal Stability of a Corona Heated by Fast Mode Waves
Ellen Zweibel 66, 305
- A Low β Coronal Loop Model. I: Kink Instabilities in the $\beta=0$ Limit
R. M. J. Sillen and A. Kattenberg 67, 47 *Errata* 79, 401
- A Classification Scheme for Solar Flare Models
D. S. Spicer and J. C. Brown 67, 385
- On Line Tying
M. Gibbons and D. S. Spicer 69, 57
- Loop Models of Solar Flares: Revisions and Comparisons
D. S. Spicer 70, 149

- A Low- β Coronal Loop Model. II: Kink Instabilities in Loops Surrounded by Plasma
Arie Kattenberg and Rob Sillen **79**, 343
- Excitation of High- m Tearing Modes at the Solar Flare Site
V. Krishan **80**, 313
- Kolmogorov Unstable Stellar Oscillations
J. Perdang **82**, 297
- Modulational Instability of Fast Magnetosonic Waves in a Solar Plasma
Jun-Ichi Sakai **84**, 109
- The Instability of Hydromagnetic Planetary-Gravity Waves in a Zonal Flow and Transverse Magnetic Field
O. M. El Mekki **85**, 83
- Magnetic Theories of Solar Flares
E. R. Priest **86**, 33
- Magnetic Stability of Coronal Arcades Relevant to Two-Ribbon Flares
A. W. Hood **87**, 279
- On the Storage of High-Energy Protons in the Solar Corona: The Cyclotron Instability
B. I. Meerson and I. V. Rogachevskii **87**, 337
- A Model of 'Disparitions Brusques' (Sudden Disappearances of Eruptive Prominences) as an Instability Driven by MHD Waves
J. Sakai and K.-I. Nishikawa **88**, 241
- Radiative and Reconnection Instabilities: Compressible and Viscous Effects
T. Tachi, R. S. Steinolfson, and G. Van Hoven **95**, 119
- Magnetic Reconnection in a High-Temperature Plasma of Solar Flares
B. V. Somov and V. S. Titov **95**, 141
- Propagation of Energetic Electron Streams in Solar Flares
Yung Mok **95**, 181
- Quenching of the Beam-Plasma Instability by Large-Scale Density Fluctuations in 3 Dimensions
L. Muschietti, M. V. Goldman, and D. Newman **96**, 181
- On the Role of Energetic Particles in Solar Flares
R. Pérez Enríquez **97**, 131
- The Physics of Thermal Instability in Two Dimensions
L. Sparks and G. Van Hoven **97**, 283
- Resistive Instabilities in Coronal Conditions
Paolo Batistoni, Giorgio Einaudi, and Claudio Chiuderi **97**, 309
- Perturbations of a Twisted Solar Coronal Loop: The Relation between Surface Waves and Instabilities
N. F. Cramer and I. J. Donnelly **99**, 119
- Instabilities, Convective** (*see Instabilities*)
- Instabilities, Hydromagnetic** (*see Instabilities*)
- Instabilities, Plasma** (*see Instabilities*)
- Instabilities, Radiative** (*see Instabilities*)
- Instabilities, Thermal** (*see Instabilities*)
- Instrumental Effects**
- Sunspot Intensities and Their Correction for Scattered Light
F. Kneer and W. Mattig **5**, 42
- Spectroscopic Investigation of a Birefringent Lyot-Filter for H α
Marina Krafft **5**, 462
- A Quantitative Treatment of Solar 'Seeing', I
C. E. Coulman **7**, 122
- On Polarimetry in Solar Active Regions. I: The New Locarno Polarimeter, Observing Procedures
E. Wiehr **9**, 225 *Errata 11*, 172
- A Fast and Accurate Guiding System
G. Pålsgård and J. O. Stenflo **11**, 155
- Determination of the Spread Function for Solar Stray Light
L. Staveland **12**, 328

- Measurement of Solar Image Motion and Blurring
P. N. Brandt 13, 243
- The Effect of Scattered Light on Solar Intensity Observations as Derived from 9 May, 1970 Mercury Transit
P. Maltby 18, 3
- On Polarimetry in Solar Active Regions. IV: Influence of Telescopic Phase Retardation
E. Wiehr 18, 226
- Observations of Stray-Light and Sunspot Intensities during the Mercury Transit of 1970 May 9
W. Mattig 18, 434
- Sunspot Intensity Observations during the 9 May 1970 Mercury Transit
P. Maltby and L. Staveland 18, 443
- The Use of Echelle Gratings in Single-Pass Spectrometers
A. D. Petford, D. E. Blackwell, B. S. Collins, P. A. Ibbetson, E. A. Mallia, G. Smith, and D. Emerson 19, 264
- Correction of Solar Observations for Stray Light by Numerical Integration, with Application to Mercury's Drop
Rolf Brahde 26, 318
- Instrumental Polarization Concerning Magnetographic Measurements
F. W. Jäger 27, 481
- Relative Umbral Intensity of a Large Sunspot
N. Mykland 28, 49
- A Remark on Turbulence and 'Production' Limited Telescopes
A. Greve 29, 263
- Studies of Granular Velocities. III: The Influence of Finite Spectral and Spatial Resolution upon the Measurement of Granular Doppler Shifts
J. P. Mehlretter 30, 19
- Correction of Sunspot Intensities for Scattered Light
D. J. Mullan 32, 65
- On the Spread Function for Stray Light
Truls Hansen 32, 505
- Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. I: Photographic Measurement of Stokes Parameters
A. Wittmann 33, 107
- Selective Diffraction with Possible Application to Solar Research
Yngve Öhman 34, 253
- A Quantitative Treatment of Solar 'Seeing'. II: Microthermal Measurements in the Immediate Vicinity of Telescopes
C. E. Coulman 34, 491
- On Polarimetry in Solar Active Regions. VI: Experimental Compensation of Telescopic Phase Retardation, Influences on Zeeman Polarimetry
E. Wiehr and M. Rossbach 35, 343
- On the Solar Magnetic 'Monopole'
M. Stix and E. Wiehr 37, 493
- Instrumental Polarization Concerning Magnetographic Measurements, II
F. W. Jäger 39, 499
- Sunspot and Stray Light Observations during the 1971, February 25 Partial Solar Eclipse
J. Köppen 42, 325
- Scattered Light - a Comparison between Theory and Experiments during the 1973 Transit of Mercury
A. Wittmann and H. Wöhl 44, 231
- Influence des perturbations thermiques de l'atmosphère sur la qualité des images solaires
J. P. Pages, J. Rösch et J. Saïssac 51, 481
- The Last Observable Line in Hydrogen Emission Spectrum
L. N. Kurochka and L. B. Ribko 57, 319
- Analysis and Interpretation of Soft X-Ray Photographs of Coronal Active Regions Taken with Fresnel Zone Plates. I: Image Analysis
G. Krämer, H. J. Einighammer, G. Elwert, H. Bräuninger, H. H. Fink, and J. Trumper 57, 345
- The Influence of Spectral Resolution on Line Blending and Wavelength Positions in the Solar UV Spectrum
A. Greve and C. D. McKeith 65, 405

Solar Rotation Measurements at Mount Wilson. I: Analysis and Instrumental EffectsRobert Howard, John E. Boyden, and Barry J. LaBonte **66**, 167**Determination of Fried's Parameter r_0 , Prediction for the Observed r.m.s. Contrast in Solar Granulation**G. Ricort, C. Aime, C. Roddier, and J. Borgnino **69**, 223**Quantitative Analysis of Skylab X-Ray Pictures of the Sun by Means of Iterative Deconvolution**K. Maute and G. Elwert **70**, 273**Solar Rotation Measurements at Mount Wilson. II: Systematic Instrumental Effects and the Absolute Rotation Rate**Barry J. LaBonte and Robert Howard **73**, 3**Measurements of the Granule-Intergranular Contrast at 5200 Å and 6300 Å**C. E. Alissandrakis, C. J. Macris, and Th. G. Zachariadis **76**, 129**On the Instrumental and Atmospheric Stray-Light for Solar Observations**W. Mattig **87**, 187**Bidimensional Analysis of Solar Active Regions and Flares. I: Imaging Spectroscopy with Universal Birefringent Filters**B. Caccin, R. Falciani, G. Roberti, A. M. Sambuco, and I. A. Smaldone **89**, 323**Measurement of Vector Magnetic Fields. I: Theoretical Approach to the Instrumental Polarization of the Kodaikanal Solar Tower**K. S. Balasubramaniam, P. Venkatakrishnan, and J. C. Bhattacharyya **99**, 333**Stokes-Spectro-Polarimetry with a Two-Dimensional Diode Array**W. Scholers and E. Wiehr **99**, 349**High Resolution Solar Telescopes (*Invited Review Paper*)**Richard B. Dunn **100**, 1**Instrumentation****The Sagamore Hill Solar Radio Observatory and the Event of August 28, 1966**J. P. Castelli and G. A. Michael **1**, 125**A Glancing Incidence Solar Telescope for the Soft X-Ray Region**J. H. Underwood and W. S. Muney **1**, 129**A High-Resolution 2800 MHz Multi-Element Interferometer**A. E. Covington, T. H. Legg, and M. B. Bell **1**, 465**Modulation Transfer Functions of Some Solar Recording Films**P. N. Brandt **2**, 211**The Lyot-Coronagraph with 53 cm Objective**M. N. Gnevyshev, G. M. Nikolsky, and A. A. Sazanov **2**, 223**The Performance of a Large Echelle Grating in a Solar Spectrometer**E. A. Mallia **2**, 360 *Rectification* **3**, 363**Resolution of the H α Double-Limb Controversy**O. R. White and G. W. Simon **3**, 269**High-Resolution Photography of the Solar Chromosphere. I: The 30-cm Refractor of the C.S.I.R.O. Solar Observatory**R. E. Loughhead, R. J. Bray, E. J. Tappere, and J. G. Winter **4**, 185**Observations of Solar Chromospheric Fine Structures in the Light of Lyman- α** William A. Sloan **4**, 196**Some Preliminary Results of Multi-Channel Radiospectrography**T. de Groot and J. van Nieuwkoop **4**, 332**The Testing and Adjustment of Lyot-Öhman Filters**J. V. Ramsey, D. G. Norton, and E. G. V. Mugridge **4**, 476**Spectroscopic Investigation of a Birefringent Lyot-Filter for H α** Marina Krafft **5**, 462**OSO-III: Preliminary Scientific Results**John C. Brandt **6**, 171**OSO-III High-Energy Gamma-Ray Experiment**W. L. Kraushaar, G. W. Clark, and G. Garmire **6**, 228**Studies Related to Satellite Thermal Control: Measurements of Earth-Reflected Sunlight and Stability of Thermal-Control Coatings**Carr B. Neel, Roy N. Griffin, and John P. Millard **6**, 235

- The Use of a Laser Beam for Investigating the Instrumental Profile of a Double-Pass Solar Spectrograph
E. A. Gurtovenko and L. U. Fedorenko 6, 465
- The Effect of Finite Resolution on Solar Granulation
Steven Musman 7, 178
- Frequency Spectra of Solar Image Motion
P. N. Brandt 7, 187
- A Method to Obtain a Solar Velocity Map Directly in One Spectroheliogram
A. Bhatnagar and J. O. Stenflo 7, 329
- Solar Photography in the Extreme Ultraviolet
W. M. Burton 8, 53
- Improvement of Coronal Emission Line Photographs
Thomas Pope 8, 88
- Absolute Calibration Method and Technique of the Daily Patrol of the Solar Flux Density at 1470 MHz
J. Prieze 9, 235
- Spectroheliograms in the Mg II Line at 2795.5 Å
Kerstin Fredga 9, 358
- Iowa Catalog of Solar X-Ray Flux (2-12 Å)
Jerry F. Drake, Sr., Jean Gibson, O.S.B., and James A. Van Allen 10, 433
- A Solar Flare Videometer
Paul E. Tallent 11, 263
- Some Developments of the Magnetic Beam Absorption Filter
M. Cimino, A. Cacciani, and M. Fofi 11, 319
- The Herschel Effect and Solar Photography
R. Jayanthan 12, 163
- A New Tunable Filter with a Very Narrow Pass-Band
J. V. Ramsay, H. Kobler, and E. G. V. Mugridge 12, 492
- An Interference Filter for Observing the Photospheric Network
Gary A. Chapman 13, 78
- A Simple Image Forming Technique Suitable for Multifrequency Observations of Solar Radio Bursts
G. Swarup and V. K. Kapahi 14, 404
- Re-Interpretation of OSO-III Scintillation Counter Measurements of Hard Solar X-Ray Spectra
S. R. Kane and H. S. Hudson 14, 414
- Description of an Observational Method for Determining Absolute Intensities in the Solar Spectrum between λ 2962 Å and λ 4087 Å
J. Houtgast 15, 273
- Grazing Incidence Spectra of the Sun
F. F. Freeman and B. B. Jones 15, 288
- High-Resolution Photography of the Solar Chromosphere. VIII: Computer Control of a Tunable 1/8 Å Filter
R. J. Bray and J. G. Winter 15, 309
- Un programme de photographie en lumière monochromatique des émissions coronales pour la période 1973-1976
Jean-Louis Leroy et Jean Rösch 15, 383
- An Instrument to Measure Anisotropies of Cosmic Ray Electrons and Protons for the Explorer 34 Satellite
W. C. Bartley, K. G. McCracken, U. R. Rao, J. R. Harries, R. A. R. Palmeira, and F. R. Allum 17, 218
- An Echelle Spectrograph for High Resolution Studies of the Solar Vacuum Ultraviolet Spectrum
B. C. Boland, B. B. Jones, and S. F. T. Engstrom 17, 333
- A Sodium Experiment for Photospheric Velocity Field Observations
E. Fossat and F. Roddier 18, 204
- A Method of Differential Field Photometry by Video-Photographic Image Subtraction
R. R. Fisher and R. C. Hill II 18, 211
- Observations of the 1.4 mm Brightness Distribution of the Sun
F. I. Shimabukuro 18, 247
- On the Use of a Solid Fabry-Perot Interferometer for Coronal Photography
Richard Fisher 18, 253
- True Central Intensities of Fraunhofer Lines
J. W. Brault, C. D. Slaughter, A. K. Pierce, and R. S. Aikens 18, 366

The Use of Echelle Gratings in Single-Pass Spectrometers

A. D. Petford, D. E. Blackwell, B. S. Collins, P. A. Ibbetson, E. A. Mallia, G. Smith, and D. Emerson **19**, 264

A Versatile Birefringent Filter

Kerstin Fredga and J. A. Högbom **20**, 204 *Erratum 21, 249*

Use of a Birefringent Element to Separate Magnetic Polarity

H. E. Ramsey **21**, 54

A Method for the Evaluation of the Brightness Distribution in the Solar Corona

W. Stanek **21**, 121

Note on the Energy Scale of the Michigan OSO III Ion Chamber

Richard G. Teske, Philip E. Hodge, and Simon P. Worden **22**, 235

The Normalization of Solar X-Ray Data from Many Experiments

Charles D. Wende **22**, 492

A Compact Grating Spectroheliograph for the Mg II Resonance Lines

B. Bates and M. W. McDowell **23**, 26

High Resolution Spectroscopy of the Disk Chromosphere. I: Observing Procedures

J. M. Beckers, H. A. Mauter, G. R. Mann, and D. R. Brown **25**, 81

A Non Imaging Approach to Solar Oblateness Measurements

T. J. Janssens **25**, 237

Modulation Transfer Function for Solar Telescopes and Atmospheric Turbulence

Alberto Righini **25**, 242

A Solar Radio Spectrograph with High Time Resolution

B. L. Gotwols and J. Phipps **26**, 386

Search for Weak White-Light Flares by Time-Wise Photographic Cancellation

Yutaka Uchida and Hugh Hudson **26**, 414

Observing Programs in Solar Physics during the 1973 ATM Skylab Program

E. M. Reeves, R. W. Noyes, and G. L. Withbroe **27**, 251

A Subtractive Double Pass Spectrograph for Solar Observations

P. Mein and M. Blondel **27**, 489

High Spatial Resolution Photographs of the Sun in $L\alpha$ Radiation

D. K. Prinz **28**, 35

Polarization Interferometer for 2800 MHz Solar Noise Studies with a 0.5' Fan Beam

M. B. Bell, A. E. Covington, and W. A. G. Kennedy **28**, 123

Sunspot Observations by Means of a Vidicon Camera (I)

K. Matsumaru **28**, 351

Contrast Elements in Birefringent Filters

Stephen A. Schoolman **30**, 255

Some Comments on the Photographic Subtraction Method of Determining Chromospheric Velocities

R. J. Bray **30**, 335

On the Determination of Noise in Photographic Measurements of Solar Velocities and Magnetic Fields

P. N. Brandt and A. Nesis **31**, 75

Solar Flare Observations from a Pair of Matched Instruments

Fred Ward, Ralph F. Carnevale, and Richard G. Hendl **31**, 131

Identification and Analysis of Structures in the Corona from X-Ray Photography

G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81

Improvement of Birefringent Filters. I: Reduction of Scatter in Polaroid Materials

Alan M. Title **33**, 521

Measurement of the X-Ray Emission of the Solar Atmosphere during a Period of Low Activity

Richard S. Wolff **34**, 163

Sensitivity Variations of Silicon Vidicons

Alan M. Title **35**, 233

The GSFC EUV and X-Ray Spectroheliograph on OSO-7

J. H. Underwood and W. M. Neupert **35**, 241

A Multi-Slit Spectrograph and $H\alpha$ Doppler System

S. F. Martin, H. E. Ramsey, G. A. Carroll, and D. C. Martin **37**, 343

Use of Colour to Display the Circular Polarization in Solar Dynamic Spectra

S. Suzuki **38**, 3

A Velocity Error in Babcock-Type Magnetographs

Edward N. Frazier **38**, 69

Preliminary Results of Sun Observations at 8.6 mm with the Bordeaux Interferometer

R. Bocchia and F. Poumeyrol **38**, 193

Tests of 4 Single-Stage Image Intensifier Tubes for Solar Spectroscopy

P. N. Brandt and A. Wiesmeier **38**, 517

Partial Polaroids in Birefringent Filters

Alan M. Title **38**, 523

Digital Enhancement of Solar X-Ray Space Photography

R. P. Chiralo **39**, 377

Effective Index of Calcite and Quartz

Alan M. Title **39**, 505

Far-Infrared Solar Brightness Measured with a Balloon-Borne Lamellar-Grating Interferometer

P. Stettler, J. Rast, F. K. Kneubühl, and E. A. Müller **40**, 337

A New High-Speed Solar Spectrograph for Meter and Decameter Wavelengths

Stephen R. Mosier and Joseph Fainberg **40**, 501

Coronal Emission Line Profile Observations at Total Solar Eclipses. I: Airborne Instrumentation and Results

D. H. Liebenberg **44**, 331

The Magneto-Optical Filter. I: Preliminary Observations in Na D Lines

G. Agnelli, A. Cacciani, and M. Fofi **44**, 509 *Errata* 46, 272The Solar Maximum Mission (*Invited Report, title only*)K. J. Frost and A. F. Timothy **47**, 389The Solar Physics Shuttle/Spacelab Program and Its Relationship to Studies of the Flare Build-Up (*Invited Report*)W. M. Neupert **47**, 391

Determination of the Energy or Pressure of a Solar X-Ray Structure Using X-Ray Filtergrams from a Single Filter

S. Kahler **48**, 255

Visibility of Magnetic Features on Filtergrams and Spectroheliograms

R. E. Loughhead and R. J. Bray **50**, 297

The Analysis and Interpretation of Solar X-Ray Photographs

J. H. Underwood and D. L. McKenzie **53**, 417 *Erratum* 57, 485

Multi-Channel Subtractive Spectrograph and Filament Observations

P. Mein **54**, 45

The Mark II Nançay Radioheliograph

The Radioheliograph Group **55**, 251

A Physical Parameter Method for the Design of Broad-Band X-Ray Imaging Systems to Do Coronal Plasma Diagnostics

S. Kahler and A. S. Krieger **56**, 351

Analysis and Interpretation of Soft X-Ray Photographs of Coronal Active Regions Taken with Fresnel Zone Plates. I: Image Analysis

G. Krämer, H. J. Einighammer, G. Elwert, H. Bräuninger, H. H. Fink, and J. Trumper **57**, 345Photoelectric Measurement of the Coronal Emission Line $\lambda 5303$ by an Automatic Coronal PhotometerChristian Spannagl **58**, 319

The Magneto-Optical Filter. II: Velocity Field Measurements

A. Cacciani and M. Fofi **59**, 179

High Resolution Photographs of the Sun near 200 nm

M. Hersé **63**, 35Solar Maximum Mission (*Invited Contribution*)J. D. Bohlin, K. U. Frost, P. T. Burr, A. K. Guha, and G. L. Withbroe **65**, 5The Gamma Ray Spectrometer for the Solar Maximum Mission (*Invited Contribution*)D. J. Forrest, E. L. Chupp, and 11 co-authors **65**, 15The Hard X-Ray Burst Spectrometer on the Solar Maximum Mission (*Invited Contribution*)L. E. Orwig, K. J. Frost, and B. R. Dennis **65**, 25The Hard X-Ray Imaging Spectrometer (HXIS) (*Invited Contribution*)H. Frank Van Beek, Peter Hoyng, Bill Lafleur, and George M. Simnett **65**, 39

- The Soft X-Ray Polychromator for the Solar Maximum Mission (*Invited Contribution*)
L. W. Acton, J. L. Culhane, A. H. Gabriel, and 21 co-authors **65**, 53
- The Ultraviolet Spectrometer and Polarimeter on the Solar Maximum Mission (*Invited Contribution*)
B. E. Woodgate, E. A. Tandberg-Hanssen, E. C. Bruner, J. M. Beckers, J. C. Brandt, W. Henze, C. L. Hyder, M. W. Kalet, P. J. Kenny, E. D. Knox, A. G. Michalitsanos, R. Rehse, R. A. Shine, and H. D. Tinsley **65**, 73
- The High Altitude Observatory Coronagraph/Polarimeter on the Solar Maximum Mission (*Invited Contribution*)
R. M. MacQueen, A. Csoeke-Poeckh, E. Hildner, L. House, R. Reynolds, A. Stanger, H. Tepoel, and W. Wagner **65**, 91
- Active Cavity Radiometer Type IV. (*Invited Contribution, Abstract Only*)
Richard C. Willson **65**, 109
- A Spectrum Scanning Stokes Polarimeter
Thomas G. Baur, Lewis L. House, and Howard K. Hull **65**, 111
- Stokes II - A New Polarimeter for Solar Observations
T. G. Baur, D. E. Elmore, R. H. Lee, C. W. Querfeld, and S. R. Rogers **70**, 395
- Colour Display for Culgoora Solar Radio Spectrograph
R. T. Stewart, T. W. Cole, C. F. Attwood, and C. J. Smith **71**, 3
- High Resolution Spectroscopy of Solar Activity. I: Observing Procedures
L. E. Cram, R. D. Rob 237
- The Role of Space Techniques in the Understanding of Solar Variability
R. M. Bonnet **74**, 485
- A Two-Dimensional Solar Spectrometer
J. R. Brookes, G. R. Isaak, and H. B. van der Raay **74**, 503
- The Observations of the Solar Irradiance and Its Variations, Challenging Space Meteorology
D. Crommelynck **74**, 509
- A High Precision Solar Ultraviolet Spectral Irradiance Monitor for the Wavelength Region 120-400 nm
M. E. VanHoosier, J.-D. F. Bartoe, G. E. Brueckner, D. K. Prinz, and J. W. Cook **74**, 521
- An Instrument to Measure the Solar Spectrum from 170 to 3200 nm on Board Spacelab
G. Thuillier, P. C. Simon, D. Labs, R. Pastiels, and H. Neckel **74**, 531
- The ESA Project for a Grazing Incidence Solar Telescope (GRIST)
Martin C. Huber **74**, 539
- Searching for $l = 1$ Modes of Solar Oscillations
A. Cacciani, V. Croce, T. Fortini, and M. Torelli **74**, 543
- A Solar Flare X-Ray Polarimeter for the Space Shuttle
J. R. Lemen, G. A. Chanan, J. P. Hughes, M. R. Laser, R. Novick, I. T. Rochwarger, M. Sackson, and L. J. Tramiel **80**, 333
- The Computer-Controlled Solar Radio Spectrometer 'Ikarus'
M. R. Perrenoud **81**, 197
- The Digital Multi-Channel Radio-Spectrograph in Nançay
G. Dumas, C. Caroubalos, and J.-L. Bougeret **81**, 383
- Observation of Global 160-min Infrared (Differential) Intensity Variation of the Sun
V. A. Kotov, S. Koutchmy, and O. Koutchmy **82**, 21
- The Study of Velocity Oscillations in the Solar Photosphere Using the Velocity Subtraction Technique
N. I. Kobanov **82**, 237
- A New System for Observing Solar Oscillations at the Mount Wilson Observatory. I: System Design and Installation
Edward J. Rhodes, Jr., Robert F. Howard, Roger K. Ulrich, and Edward J. Smith **82**, 245
- A Beam Ratio Technique for Microwave Observation of S-Component Sources
K. F. Tapping **83**, 179
- Introduction to HINOTORI
Y. Tanaka **86**, 3
- The Solar Maximum Mission (*Reference Only*)
K. J. Frost **86**, 7
- Solar Instruments aboard the P78-1 Satellite
G. A. Doschek **86**, 9
- The Mark III Nançay Radioheliograph
The Radioheliograph Group **88**, 383

Bidimensional Analysis of Solar Active Regions and Flares. I: Imaging Spectroscopy with Universal Birefringent Filters

B. Caccin, R. Falciani, G. Roberti, A. M. Sambuco, and I. A. Smaldone 89, 323

Recalibration of Mount Wilson Doppler Measurements

H. B. Snodgrass, R. Howard, and L. Webster 90, 199

Analysis of UVSP Dopplergrams and Magnetograms and Their Calibration Using the Orbital Velocity of the SMM Spacecraft

William Henze, Jr. 92, 67

Coelostat and Heliostat: Theory of Alignment

Marek Demianski and Jay M. Pasachoff 93, 211

Measuring Electron Density in Coronal Active Regions. II: A Multichannel Coronagraph with a Photoelectric Spectrograph and a Reflex Monitor at λ 5303 Å

J. C. Noëns, J. Pageault, and G. Ratier 94, 117 Errata 95, 199

A Frequency-Agile Interferometer for Solar Microwave Spectroscopy

G. J. Hurford, R. B. Read, and H. Zirin 94, 413

On the Expected Performance of a Solar Oscillation Network

Frank Hill and Gordon Newkirk, Jr. 95, 201

The Haleakala Stokes Polarimeter

D. L. Mickey 97, 223

Stokes-Spectro-Polarimetry with a Two-Dimensional Diode Array

W. Scholers and E. Wiehr 99, 349

Imaging Properties of a Photoheliograph with a Lyot Plane Shutter

L. Györi 99, 365

High Resolution Solar Telescope (*Invited Review Paper*)

Richard Dunn 100, 1

The Future of Solar Physics (*Invited Review Paper*)

E. N. Parker 100, 599

Instrumentation, Coronagraphs (*see Instrumentation*)

Instrumentation, Detectors (*see Instrumentation*)

Instrumentation, Extreme Ultraviolet (*see Instrumentation*)

Instrumentation, Filters (*see Instrumentation*)

Instrumentation, Gamma Ray (*see Instrumentation*)

Instrumentation, Gratings (*see Instrumentation*)

Instrumentation, Infrared (*see Instrumentation*)

Instrumentation, Kinetographs (*see Instrumentation*)

Instrumentation, Magnetographs

A New Type of Magnetograph

Jan Olof Stenflo 3, 482

An Instrument to Measure Solar Magnetic Fields by an Atomic-Beam Method

M. Cimino, A. Cacciani, and N. Sopranzi 3, 618

A New Method of Magnetograph Observation of the Photospheric Brightness, Velocity, and Magnetic Fields

Robert Howard, Andrew S. Tanenbaum, and John M. Wilcox 4, 286

Principles of Operation of Solar Magnetographs

J. M. Beckers 5, 15 Erratum 6, 168

Polarized Light, Magnetographs, and Solar Magnetic Fields

Charles L. Hyder 5, 29

The Magnetoheliograph

Jan Olof Stenflo 6, 476

Solar Magnetic-Field Measurements Using Babinet Compensators

J. M. Beckers and J. O. Stenflo 6, 480

The Vectormagnetograph of the Fraunhofer Institut

Franz-Ludwig Deubner and R. Liedler 7, 87

- About the Influence of Inhomogeneities of Magnetic Fields on Line Contours and Magnetographic Measurements
J. Staude **8**, 264
- On Polarimetry in Solar Active Regions. I: The New Locarno Polarimeter, Observing Procedures
E. Wiehr **9**, 225 *Errata 11, 172*
- Multi-Channel Magnetograph Observations. I: Comparison with Spectroheliograms
Edward N. Frazier and Philip H. Scherrer **10**, 297
- Some Developments of the Magnetic Beam Absorption Filter
M. Cimino, A. Cacciani, and M. Fofi **11**, 319
- On Polarimetry in Solar Active Regions. II: Selection of Lines; Interpretation of Polarimetric Data
E. Wiehr **11**, 399
- Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. II: The Influence of Different Atmosphere Models and of a Magnetic Field Gradient
J. Staude **12**, 84 *Erratum 15, 111*
- On Polarimetry in Solar Active Regions. IV: Influence of Telescopic Phase Retardation
E. Wiehr **18**, 226
- A Complete Stokes-Meter
A. Cacciani and M. Fofi **19**, 270
- Use of a Birefringent Element to Separate Magnetic Polarity
H. E. Ramsey **21**, 54
- Instrumental Polarization Concerning Magnetographic Measurements
F. W. Jäger **27**, 481
- On the Determination of Noise in Photographic Measurements of Solar Velocities and Magnetic Fields
P. N. Brandt and A. Nesis **31**, 75
- The Comparison of the Magnetographic Magnetic Field Measured in Different Spectral Lines
S. I. Gopasyuk, V. A. Kotov, A. B. Severny, and T. T. Tsap **31**, 307
- Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. I: Photographic Measurement of Stokes Parameters
A. Wittmann **33**, 107
- Temperature Effects on Measurements of Photospheric Magnetic Fields
B. Caccin, R. Falciani, and A. Donati-Falchi **35**, 31
- On Polarimetry in Solar Active Regions. VI: Experimental Compensation of Telescopic Phase Retardation, Influences on Zeeman Polarimetry
E. Wiehr and M. Rossbach **35**, 343
- On Polarimetry in Solar Active Regions. VII: A New Zeeman Polarimeter and Its Advantages as Compared to Other Designs
E. Wiehr **35**, 351
- A Velocity Error in Babcock-Type Magnetographs
Edward N. Frazier **38**, 69
- Instrumental Polarization Concerning Magnetographic Measurements, II
F. W. Jäger **39**, 499
- The Lockheed Diode Array Magnetograph
Robert C. Smithson **40**, 241
- Measurement of Solar Magnetic Fields by Fourier Transform Techniques. I: Unsaturated Lines
Alan M. Title and Theodore D. Tarbell **41**, 255
- Measurements of Solar Magnetic Fields by Fourier Transform Techniques. II: Saturated and Blended Lines
Theodore D. Tarbell and Alan M. Title **47**, 563
- The Mount Wilson Solar Magnetograph: Scanning and Data System
Robert Howard **48**, 411
- A New Type of a Photo Electric Magnetograph
N. N. Lebedev and V. M. Grigorjev **48**, 417
- Visibility of Magnetic Features on Filtergrams and Spectroheliograms
R. E. Loughhead and R. J. Bray **50**, 297
- Measurement of the Prominences Magnetic Field
O En Den, I. S. Kim, and G. M. Nikolsky **52**, 35

- The Mean Magnetic Field of the Sun: Observations at Stanford
Philip H. Scherrer, John M. Wilcox, Leif Svalgaard, Thomas L. Duvall, Jr., Phil H. Dittmer, and Eric K. Gustafson **54**, 353
- The Determination of Vector Magnetic Fields from Stokes Profiles
L. H. Auer, J. N. Heasley, and L. L. House **55**, 47
- The MSFC Vector Magnetograph
M. J. Hagyard, N. P. Cumings, E. A. West, and J. E. Smith **80**, 33
- Measurements of the Magnetic Field in Solar Prominences with a Spectrally Scanning Magnetograph
G. M. Nikolsky, I. S. Kim, and S. Koutchmy **81**, 81
- The Mount Wilson Magnetograph
R. Howard, J. E. Boyden, D. H. Bruning, M. K. Clark, H. W. Crist, and B. J. LaBonte **87**, 195
- Analysis of UVSP Dopplergrams and Magnetograms and Their Calibration Using the Orbital Velocity of the SMM Spacecraft
William Henze, Jr. **92**, 67
- Stokes-Spectro-Polarimetry with a Two-Dimensional Diode Array
W. Scholers and E. Wiehr **99**, 349
- Instrumentation, Optical** (*see Instrumentation*)
- Instrumentation, Particle** (*see Instrumentation*)
- Instrumentation, Radio** (*see Instrumentation*)
- Instrumentation, Satellites** (*see Instrumentation*)
- Instrumentation, Spectrographs** (*see Instrumentation*)
- Instrumentation, Spectroheliographs** (*see Instrumentation*)
- Instrumentation, Ultraviolet** (*see Instrumentation*)
- Instrumentation, X-Ray** (*see Instrumentation*)
- Intergranular Region and Subgranular Structures**
- Magnetic Fields in Small and Young Spots
V. Bumba **1**, 371
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. I: Observational Technique, Properties of Magnetic Knots
J. M. Beckers and E. H. Schröter **4**, 142
- On the Energy Release by Magnetic Field Dissipation in the Atmosphere
M. Kopecký and V. Obridko **5**, 354
- A Morphological Study of the Solar Granulation
O. Namba and W. E. Diemel **7**, 167
- On the Spectrum of Granular and Intergranular Regions
R. Howard and A. Bhatnagar **10**, 245
- Bright-Dark Asymmetry in Solar Granulation
Michael I. Parvey and Steven Musman **18**, 385
- A Power Spectrum Analysis of Granular Intensity Fluctuations and Velocities
H. Reiling **19**, 297
- The Solar Filigree
Richard B. Dunn and Jack B. Zirker **33**, 281
- A Search for the Footpoints of Solar Magnetic Fields
G. W. Simon and J. B. Zirker **35**, 331
- Observations of Photospheric Faculae at the Center of the Solar Disk
J. P. Mehlretter **38**, 43
- Horizontal Velocities in the Solar Photosphere
Dainis Dravins **40**, 53
- Spectral Analyses of Solar Photospheric Fluctuations. IV: The Low-Wavenumber Power of Granulation Brightness Fluctuations
Frank N. Edmonds, Jr. **44**, 293

Convective Velocities Derived from Granule Contrast Profiles in Fe I $\lambda 6569.2$

R. J. Bray, R. E. Loughhead, and E. J. Tappere 49, 3 *Erratum 55, 274 and Replacement Figure: Fig. 1 - 53, 547*

A New Determination of the Granule/Intergranule Contrast

R. J. Bray and R. E. Loughhead 54, 319

Morphological Study of the Solar Granulation. I: Dark Dot Formation in the Cell

Reizaburo Kitai and Ichiro Kawaguchi 64, 3

Faculae, Filigree and Calcium Bright Points

P. R. Wilson 69, 9

Measurements of the Granule-Intergranular Contrast at 5200 Å and 6300 Å

C. E. Alissandrakis, C. J. Macris, and Th. G. Zachariadis 76, 129

The Wavelength Variation of the Granule/Intergranule Contrast

R. J. Bray 77, 299

The Dynamical Behavior of Facular Points in the Quiet Photosphere

R. Müller 85, 113

Simple Models for Magnetic Flux Tubes

G. W. Simon, N. O. Weiss, and A. H. Nye 87, 65

The Solar I λ 7773 Triplet. I: Spatially Resolved Profiles

A. Kavetsky and B. J. O'Mara 92, 47

Morphological Evolution of an Emerging Flux Region

J. J. Brants and J. C. M. Steenbeek 96, 229

Integrated Sun Observations

Variability of the Integrated Solar K Line Emission

V. Bumba and B. Růžicková-Topolavá 1, 216

Comparison of the Mean Photospheric Magnetic Field and the Interplanetary Magnetic Field

A. Severny, J. M. Wilcox, P. H. Scherrer, and D. S. Colburn 15, 3

Ultraviolet Ion Chamber Measurements of the Solar Minimum Brightness Temperature

J. H. Carver, B. H. Horton, G. W. A. Lockey, and Bryan Rofe 27, 347

Short-Periodic Oscillations of the Magnetic Field of the Sun as a Star

B. A. Ioshpa, V. N. Obridko, and B. D. Shelting 29, 385

Determination of the Decameter Wavelength Spectrum of the Quiet Sun

W. C. Erickson, T. E. Gergely, M. R. Kundu, and M. J. Mahoney 54, 57

The Mean Magnetic Field of the Sun: Observations at Stanford

Philip H. Scherrer, John M. Wilcox, Leif Svalgaard, Thomas L. Duvall, Jr., Phil H. Dittmer, and Eric K. Gustafson 54, 353

The Relationship between Solar Activity and the H and K Line Cores in Integrated Sunlight

Dennis E. Jebsen and Walter E. Mitchell, Jr. 57, 309

The Solar $L\alpha$ Flux near Solar Minimum

A. Vidal-Madjar and B. Phissamay 66, 259

Periodicities in the λ 10 cm Solar Flux

V. A. Hughes and M. J. L. Kesteven 71, 259

Short-Period Intensity Fluctuations of Integral Sunlight

A. Claverie, G. R. Isaak, and C. P. McLeod 74, 73

Solar Radiation and Its Variation in Time

C. Frölich and R. W. Brusa 74, 209

Solar Total Irradiance Observations by Active Cavity Radiometers

Richard C. Willson 74, 217

Rotational Modulation of Ca K Flux Ratio and Sunspot Number

R. W. Stimets and C. Londono 76, 167

Full-Disk Observations of Solar Oscillations from the Geographic South Pole: Latest Results (*Invited Review*)

Gérard Grec, Eric Fossat, and Martin A. Pomerantz 82, 55

Solar Oscillations Observed in the Total Irradiance

M. Woodard and H. Hudson 82, 67

Detection of Solar Five-Minute Oscillations of Low Degree

P. H. Scherrer, J. M. Wilcox, J. Christensen-Dalsgaard, and D. O. Gough 82, 75

Solar Line Blocking for Disk-Center and Disk-Average Radiation from 3300 to 6860 Å

Heinz Neckel and Dietrich Labs **95**, 229

Expressions to Determine Temperatures and Emission Measures for Solar X-Ray Events from GOES Measurements

R. J. Thomas, R. Starr, and C. J. Crannell **95**, 323

Variations of the Asymmetry of Disk-Integrated Solar Line Profiles

David H. Bruning and Barry LaBonte **97**, 1

Interferometry

Decametric Radio Spectra and Positions during the Flare of August 28, 1966: 1522 UT

James W. Warwick **4**, 446

Interferometric Investigation of the Red and Green Lines during the Total Eclipse of May 30, 1965

A. B. Delone and E. A. Makarova **9**, 116

Preliminary Report on Photographing the Solar Corona in 5303 Å with a Polaroid and a Fabry-Pérot Interferometer during the Total Eclipse of September 22, 1968

A. Delone and E. Makarova **9**, 446

A Simple Image Forming Technique Suitable for Multifrequency Observations of Solar Radio Bursts

G. Swarup and V. K. Kapahi **14**, 404

Interferometric Studies of Spectral Lines in the Solar Corona

Joseph G. Hirschberg, Alain Wouters, and Lyman Hazelton, Jr. **21**, 448

Fine Structure of the Sun at 1.3 cm Wavelength

M. R. Kundu and T. Velusamy **34**, 125

Fine Structure of a Solar Active Region at 3.7 and 11.1 cm Wavelengths

M. R. Kundu, R. H. Becker, and T. Velusamy **34**, 185

Fine Structure of a Solar Flare Region at 3.7 and 11.1 cm Wavelengths

M. R. Kundu, T. Velusamy, and R. H. Becker **34**, 217

High Resolution Interferometry of the Sun at 3.7 cm Wavelength

Kenneth R. Lang **36**, 351

1.0 Arc Second Structure on the Sun at 3.71 cm Wavelength

Robert W. Hobbs, Stuart D. Jordan, William J. Webster, Jr., Stephen P. Maran, and Howard M. Caulk **36**, 369

Preliminary Results of Sun Observations at 8.6 mm with the Bordeaux Interferometer

R. Bocchia and F. Poumeyrol **38**, 193

High Resolution Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths

C. E. Alissandrakis and M. R. Kundu **41**, 119

Decameter Storm Radiation, II

T. E. Gergely and M. R. Kundu **41**, 163

Investigation of Emission Lines of the Solar Corona of 10 July, 1972 Using the Fabry-Pérot Etalon I. S. Kim and G. M. Mikolsky **43**, 351

Coronal Emission Line Profile Observations at Total Solar Eclipses. I: Airborne Instrumentation and Results

D. H. Liebenberg **44**, 331

Coronal Emission Line Profile Observations at Total Solar Eclipses. II: 30 May 1965 Results, Deconvolution and Interpretation

D. H. Liebenberg, R. J. Bessey, and B. Watson **44**, 345

Interferometric Investigation of the Line of Sight Velocities in $\lambda 5303$ during the Eclipse of 11 September, 1968

A. B. Delone and E. A. Makarova **45**, 157 *Corrigendum 45*, 550

Radio Interferometric Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths

M. R. Kundu and P. E. Angerhofer **64**, 159

Determination of Fried's Parameter r_0 Prediction for the Observed r.m.s. Contrast in Solar Granulation

G. Ricort, C. Aime, C. Roddier, and J. Borgnino **69**, 223

Observed Mass Motions in Limb Prominences

Andries H. Lategan and A. H. Jarrett **76**, 323

A Frequency-Agile Interferometer for Solar Microwave Spectroscopy

G. J. Hurford, R. B. Read, and H. Zirin **94**, 413

Interior, Solar

A Rossby-Wave Dynamo for the Sun, I

Peter A. Gilman **8**, 316

A Rossby-Wave Dynamo for the Sun, II

Peter A. Gilman 9, 3

Solar Dynamo Theory and the Models of Babcock and Leighton

J. H. Piddington 22, 3

Solar Abundances of Light Nuclei and Mixing of the Sun

Peter Bochsler and Johannes Geiss 32, 3

Magnetic Convection

Kenneth H. Schatten 33, 305

A Model of the Solar Convection Zone

H. C. Spruit 34, 277

Is Magnetic Convection Important in the Sun?

D. J. Mullan 38, 9

Phase Relation between the Poloidal and Toroidal Solar-Cycle General Magnetic Fields and Location of the

Origin of the Surface Magnetic Fields

Hirokazu Yoshimura 50, 3

Instability by Magnetic Buoyancy

D. J. Acheson 62, 23

Solar Interior Structure and Luminosity Variations

D. O. Gough 74, 21

A Magnetic Core in the Sun? The Solar Rotator

R. H. Dicke 78, 3

Helioseismology with High Degree p -Modes (*Invited Review*)

F. L. Deubner 82, 103

160-min Oscillations of the Sun as a Means of Studying of Its Internal Structure

E. A. Gavryuseva, Yu. S. Kopysov, and G. T. Zatsépin 82, 209

Adiabatic Oscillations of Solar Models with a High-Z Convective Zone

S. V. Vorontsov and K. I. Marchenkov 82, 215

Solar Models with Low Opacity

P. A. Kuzurman and A. A. Pamyatnykh 82, 223

Rotational Splitting of Solar Five-Minute Oscillations of Low Degree (*Invited Review, Abstract*)

A. Clavierie, G. R. Isaak, C. P. McLeod, H. B. van der Raay, and T. Roca Cortes 82, 233

Is There an Oblique Magnetic Rotator Inside the Sun? (*Invited Review, Abstract*)

G. R. Isaak 82, 235

Resonant Coupling between Solar Gravity Modes (*Invited Review*)

W. Dziembowski 82, 259

On the Excitation of Oscillations of the Sun (Numerical Models)

A. G. Kosovichev and A. B. Severny 82, 323

On the Influence of Nonlinearities on the Eigenfrequencies of Five-Minute Oscillations of the Sun

Gaetano Belvedere, Douglas Gough, and Lucio Paternò 82, 343

An Essay on Stellar Oscillations and Evolution

Icko Iben, Jr. 82, 457

Helioseismology in the Future (*Invited Review*)

R. M. Bonnet 82, 487

The Internal Magnetic Field of the Sun and Peculiarities of the Solar Activity Cycles

M. I. Pudovkin and E. E. Benevolenska 95, 381

Present Problems of the Solar Interior (*Invited Review Paper*)

Ian W. Roxburgh 100, 21

The Solar Neutrino Problem (*Invited Review Paper*)

John N. Bahcall 100, 53

Inverting Helioseismic Date (*Invited Review Paper*)

Douglas Gough 100, 65

The Sun as a System of Elementary Particles (*Invited Review Paper*)

Josip Kleczek 100, 115

The Future of Solar Physics (*Invited Review Paper*)

E. N. Parker 100, 599

Interior, Magnetic Field Theory (*see Interior*)

Interior, Stellar (*see Stellar Physics*)

Interplanetary Medium (*see Solar Wind*)

Interplanetary Sector Structure (*see Magnetic Fields, Interplanetary Sector Structure*)

Ionosphere

Effects Associated with the Sector Boundary Crossing on July 8, 1966

Z. Švestka 4, 361

Identification of a Solar X-Ray Source Using D Layer Ionization Behavior during an Eclipse

David D. Meisel 5, 575

Enhancement of Ionizing Radiation during a Solar Flare

O. K. Garriott, A. V. Da Rosa, M. J. Davis, L. S. Wagner, and G. D. Thome 8, 226

Further Investigations of Solar X-Ray Sources Using D-Layer Ionization Behavior during Eclipses

David D. Meisel 8, 477

Some Relationships between Solar X-Ray Bursts and SPA's Produced on VLF Propagation in the Lower Ionosphere

Pierre Kaufmann and M. H. Paes de Barros 9, 478

Identification of Two Solar X-Ray Sources at the 22 September 1968 Total Eclipse

David D. Meisel 9, 487

Comments on a Paper by D. Meisel Entitled 'Identification of Solar X-Ray Source Using D-Layer Ionization Behavior during an Eclipse'

A. C. Aikin and J. H. Underwood 11, 334

Reply to Aikin and Underwood

David D. Meisel 11, 338

On the X-Ray Control of the Ionospheric Absorption of HF Radio Waves

P. Triska and J. Laštovička 15, 504

Effects of Active Solar Regions on the Galactic Cosmic Ray Intensity

E. Antonucci, G. Cini Castagnoli, and M. A. Dodero 20, 497

XUV Image of the Sun from Eclipse Observations of the Ionospheric E-Region

R. T. Marriott, D. E. St. John, R. M. Thorne, and S. V. Venkateswaran 21, 483

On the Relation of SPA Measured at VLF to Solar Microwave Bursts Energies

Pierre Kaufmann and L. Rizzo Piazza 57, 479

About the Observed Brightness Distribution of Solar Radio Bursts on Decameter Wavelengths and a Possible Effect from the Ionosphere

J. L. Steinberg, M. Poquérousse, and S. Hoang 64, 359

Increase in the Response of the Earth's Atmosphere to the Sunspot Cycle with Height above Sea Level

H. Schwentek and W. Elling 74, 355

Similar Periodicities in the Range 12 to 150 Days in Solar, Ionospheric and Atmospheric Time Series

W. Elling and H. Schwentek 74, 373

Long-Term Fluctuations of Solar Activity during the Last Thousand Years

L. Křivský 93, 189

Rapid Fluctuations in the Position, Size, and Brightness of Intense Solar Metre-Wave Radio Sources

R. A. Duncan 97, 173

SID Flare Production and Mt. Wilson Magnetic Class: An Alternative Interpretation

Constance Sawyer, A. Achong, and P. A. Stahl 98, 193

Ionosphere, Flare-Induced Disturbances

Detailed Analysis of Flares, Magnetic Fields and Activity in the Sunspot Group of Sept. 13-26, 1963

Harold Zirin and Susan Werner 1, 66

Electrons >40 keV and Protons >500 keV of Solar Origin

R. P. Lin and K. A. Anderson 1, 446

The X-Ray and Extreme Ultraviolet Radiation of the August 28, 1966 Proton Flare as Deduced from Sudden Ionospheric Disturbance Data

R. F. Donnelly 5, 123

The Solar Particle Events of May 23 and May 28, 1967

S. T. Lindgren 5, 382

Enhancement of Ionizing Radiation during a Solar Flare

O. K. Garriott, A. V. Da Rosa, M. J. Davis, L. S. Wagner, and G. D. Thome **8**, 226

The Geomagnetic and Cosmic-Ray Storm of May 25/26, 1967

S.-I. Akasofu, P. D. Perreault, and S. Yoshida **8**, 464

Flare-Time Sudden Enhancements of Low Frequency Field Strength and Associated Meter Wave Solar Radio Bursts

S. K. Alurkar and R. V. Bhonsle **9**, 198Major H α Flares in Centers of Activity with Very Small or No SpotsHelen W. Dodson and E. Ruth Hedeman **13**, 401

SCL - A New Nomenclature to Denote the Effect of a Solar Flare on Longwave Field Intensity

S. N. Mitra **15**, 249The Relation of Energetic Solar X-Rays ($h\nu > 60$ keV) and High Frequency Microwaves Deduced from the Periodic Bursts of August 8, 1968 FlareGeorge K. Parks and John R. Winckler **16**, 186

The Explosive Phase of Solar Flares

Karen L. Harvey **16**, 423

Longitudinal Distribution of PCA Sources on the Sun

L. Fritzová-Švestková and Z. Švestka **17**, 212

Extreme Ultraviolet Flashes of Solar Flares Observed via Sudden Frequency Deviations: Experimental Results

Richard F. Donnelly **20**, 188

Note on the Characteristics of Sunspot Groups which Produce Solar Proton Flares

Kunitomo Sakurai **23**, 142Properties of White Light Flares. I: Association with H α Flares and Sudden Frequency DeviationsPatrick S. McIntosh and Richard F. Donnelly **23**, 444

The Loop Prominence of May 13, 1971 and Its Associated Effects

M. E. Machado, H. Grossi Gallegos, and A. F. Silva **25**, 402

The Extreme Ultraviolet Emissions of Solar Flares: A Comparison between OSO-6 Spectroheliograph Observations and SFDs

R. F. Donnelly, A. T. Wood, Jr., and R. W. Noyes **29**, 107

Extreme Ultraviolet Spectrum of the Solar Flare of 2114 UT March 27, 1967

R. F. Donnelly and L. A. Hall **31**, 411

On the Relationships between sfe (crochet) and Solar X-Ray and Microwave Bursts

J. Hanumath Sastri and B. Suryanaryan Murthy **41**, 477

The July 1974 Solar Events: A Possible Lower Limit for Microwave Activity

P. Kaufmann, P. Iacomo, Jr., E. H. Koppe, P. Marques dos Santos, R. E. Schaal, and J. R. Blakey **45**, 189

SID Flares and Sunspot Morphology

Anthony Achong, Philip A. Stahl, and Cuthbert Nyack **88**, 137 *Errata* 90, 203

SID Flare Production is Independent of Mt. Wilson Magnetic Class

A. Achong and P. A. Stahl **92**, 259

Longitudinal Distribution of the Cool Solar Surges

V. K. Verma **94**, 155

The Solar Causes of Geomagnetic Disturbances

V. P. Mikhailutsa and M. N. Gnevyshev **98**, 387**Ionosphere, Models** (*see Ionosphere*)**Ionosphere, Non-Flare Related Disturbances** (*see Ionosphere*)**Limb Observations**Resolution of the H α Double-Limb ControversyO. R. White and G. W. Simon **3**, 269

Emission Gradients in the Continuum at the Sun's Limb

Eijiro Hiei and James E. Faller **3**, 513

High-Resolution Photography of the Solar Chromosphere. VII: Structure of the Low Chromosphere

R. E. Loughhead **10**, 71

The Observation of the Chromospheric Fine Structure by the 53-cm Lyot Coronagraph

G. M. Nikolsky **12**, 379

- The Solar Limb Emission Spectrum between 300 Å and 2803 Å
W. M. Burton and A. Ridgeley **14**, 3
- The Intensity Distribution of the D₃ Helium Line near the Solar Limb
R. A. Gulyaev **18**, 410
- High-Resolution Photography of the Solar Chromosphere. IX: Limb Observations of High Spectral Purity
R. E. Loughhead and E. J. Tappere **19**, 44
- Oscillations of Visible Chromosphere Boundary and Regularity in Position of Spicule Groups along the Limb
July V. Platov and Nataly S. Shilova **19**, 52
- A Study of the Fine Structure of the Solar Chromosphere at the Limb
C. E. Alissandrakis and C. J. Macris **20**, 47
- Observation in the Wing of the H α Line and Identification of the Spicular Structure near the Solar Limb
S. Koutchmy and C. Macris **20**, 295
- Solar Spicules Observed through a K-Filter
G. Banos **32**, 337
- Photoelectric Drift Scans. II: Time Pulse Evaluation, Limb Profiles, and the Solar Diameter
A. Wittmann **36**, 65
- The Continuum of the Extreme Limb and the Chromosphere at the 1970 Eclipse
H. Kurokawa, K. Nakayama, T. Tsubaki, and M. Kanno **36**, 69
- Polarisation de la lumière, au bord du disque solaire, dans le proche infra-rouge
J. L. Leroy **36**, 81
- Detection of Small Scale Structure in Metal Lines at the Extreme Solar Limb
W. C. Livingston and O. R. White **39**, 289
- A Comparison of Spicules in the H α and He II (304 Å) Lines
Olav Kjeldseth Moe, Oddbjørn Engvold, and Jacques Maurice Beckers **40**, 65
- The Hydrogen Balmer Lines and the Structure of the Quiet Solar Chromosphere. I: Observations at the Limb
Pierre Mein and Nicole Mein **40**, 317
- Height of Helium Emission in the Chromosphere
Thomas Pope and Stephen A. Schoolman **42**, 47
- Quelques résultats d'observation des spicules chromosphériques en K et D3
Z. Mouradian et I. Soru-Escaut **50**, 69
- Extreme Limb Observations of Ba II λ 4554 and Mg I λ 4571
Robert J. Rutten **51**, 3
- The Helium 10830 Å Line in the Undisturbed Chromosphere
R. G. Giovanelli and D. Hall **52**, 211
- Spatial Structure in Lines in the 3398-3526 Å Region at the Extreme Limb: Observations, Identification and Interpretation
Richard C. Canfield, Jay M. Pasachoff, Robert E. Stencel, and Jacques M. Beckers **58**, 263
- Solar Brightness Distribution at 3 mm Wavelength from Observations of the Eclipse of 1976 October 23
N. R. Labrum, J. W. Archer, and C. J. Smith **59**, 331
- Temperature Gradients in the Inner Corona
John T. Mariska and George L. Withbroe **60**, 67
- The Variation of Solar Brightness at the Extreme Solar Limb at Centimetre Radio Waves
P. Lantos, E. Fürst, and W. Hirth **63**, 271
- Search for Spectral Line Polarization in the Solar Vacuum Ultraviolet
J. O. Stenflo, D. Dravins, N. Wihlborg, A. Bruns, V. K. Prokof'ev, I. A. Zhitnik, H. Biverot, and L. Stenmark **66**, 13
- Airborne Total Eclipse Observations of the Extreme Solar Limb at 400 μ m
T. Alan Clark and Rita T. Boreiko **76**, 117 *Addendum 83, 187*
- The Measurement of Long-Period Oscillations at Sacramento Peak Observatory and South Pole
Robin Stebbins and Christopher Wilson **82**, 43
- An Estimation of the Fluctuations in the Extreme Limb of the Sun
Bruce W. Lites **85**, 193
- On the Sun's Limb Brightening in the Visible
G. H. Elste **93**, 15

Macrospicules (*see Spicules*)

Magnetic Fields

- The Stability of Force-Free Magnetic Fields with Cylindrical Symmetry in the Context of Solar Flares
Ulrich Anzer **3**, 298
- On the Energy Release by Magnetic Field Dissipation in the Solar Atmosphere
M. Kopecký and V. Obridko **5**, 354
- The Photospheric Network
G. A. Chapman and N. R. Sheeley, Jr. **5**, 442
- General Magnetic Field and Rotation of the Outer Layers of the Sun
F. Unz and K. Walter **8**, 310
- The Evolution of the Photospheric Network
N. R. Sheeley, Jr. **9**, 347
- Simultaneous Measurements of Magnetic Fields and Brightness Fields Using a 4-Image Spectroheliograph
N. R. Sheeley, Jr. and O. Engvold **12**, 69
- The Polar Magnetic Fields of July and August 1968
Jan Olof Stenflo **13**, 42
- Concerning the Formation of Giant Regular Structures in the Solar Atmosphere
V. Bumba **14**, 80
- Multi-Channel Magnetograph Observations. II: Supergranulation
Edward N. Frazier **14**, 89
- Hale's Attempts to Determine the Sun's General Magnetic Field
Jan Olof Stenflo **14**, 263
- Production of the Solar Magnetic Fine-Structure by Convection
S. R. Weart **14**, 274
- A Comparison of Simultaneous Measurements of the Polar Magnetic Fields Made at the Crimea and Mount Wilson
V. A. Kotov and J. O. Stenflo **15**, 265
- Multi-Channel Magnetograph Observations. III: Faculae
Edward N. Frazier **21**, 42
- Solar Dynamo Theory and the Models of Babcock and Leighton
J. H. Piddington **22**, 3
- Polar Magnetic Fields of the Sun: 1960-1971
Robert Howard **25**, 5
- Large-Scale Photospheric Magnetic Field: The Diffusion of Active Region Fields
Kenneth H. Schatten, Robert B. Leighton, Robert Howard, and John M. Wilcox **26**, 283
- On the Random Nature of the Eruption of Magnetic Flux at the Solar Surface
Robert Howard and Stephen J. Edberg **28**, 73
- Videomagnetograph Studies of Solar Magnetic Fields. I: Magnetic Field Diffusion in Weak Plage Regions
Robert C. Smithson **29**, 365
- Why Syrovatskii's Mechanism of Dynamic Dissipation of Magnetic Fields Does Not Work
Ulrich Anzer **30**, 459
- The Comparison of the Magnetographic Magnetic Field Measured in Different Spectral Lines
S. I. Gopasyuk, V. A. Kotov, A. B. Severny, and T. T. Tsap **31**, 307
- On the Structure of the Solar Photosphere
V. A. Krat **32**, 307
- Solar Polar Spin-Down
Kenneth H. Schatten **32**, 315
- Videomagnetograph Studies of Solar Magnetic Fields. II: Field Changes in an Active Region
Stephen A. Schoolman **32**, 379
- Magnetic Convection
Kenneth H. Schatten **33**, 305
- Curvature and Surface Distribution of the Polar Rays in the Solar Corona on 12 November 1966
J. G. Kirk and J. S. Newby **35**, 377
- Comments on 'Solar Polar Spindown', by Kenneth Schatten
Peter A. Gilman **36**, 61
- Green Corona and Solar Sector Structure
Ester Antonucci and Leif Svalgaard **36**, 115

- Is Magnetic Convection Important in the Sun?
D. J. Mullan 38, 9
- Studies of Solar Magnetic Fields. II: The Magnetic Fluxes
Robert Howard 38, 59
- Studies of Solar Magnetic Fields. I: The Average Field Strengths
Robert Howard 38, 283
- Magnetic Pukas and the Lifetime of the Supergranulation
W. C. Livingston and F. Q. Orrall 39, 301
- XUV Observations of Coronal Magnetic Fields
N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. Scherrer, and R. Tousey 40, 103
- A Model of the Supergranulation Network and of Active-Region Plages
J. O. Stenflo 42, 79
- Evidence for Non-Radial Fields in the Sun's Photosphere and a Possible Explanation of the Polar Magnetic Signal
Tom Pope and Jim Mosher 44, 3
- A Study of Supergranulation Using a Diode Array Magnetograph
Simon P. Worden and George W. Simon 46, 73
- Report on the Solar Physics-Plasma Physics Workshop, held at Stanford University, 17-20 September 1974
P. A. Sturrock, P. J. Baum, J. M. Beckers, C. E. Newman, E. R. Priest, H. Rosenberg, D. F. Smith, and D. G. Wentzel (eds.) 46, 411
- Laboratory Solar Flare Experiments
P. J. Baum and A. Bratenahl 47, 331
- Studies of Solar Magnetic Fields. IV: The Effects of Angular Resolution
Robert Howard 47, 575
- Solar Cycle General Magnetic Fields of 1959-1974 and Dynamical Structure of the Convection Zone
Hirokazu Yoshimura 47, 581
- Equilibrium and Stability of the Force-Free Magnetic Field, III
M. M. Molodensky 49, 279
- Phase Relation between the Poloidal and Toroidal Solar-Cycle General Magnetic Fields and Location of the Origin of the Surface Magnetic Fields
Hirokazu Yoshimura 50, 3
- The Dark Component of the Photospheric Network
Stephen A. Schoolman and Harry E. Ramsey 50, 25
- Upper Limits in the Toroidal Component of Force-Free Magnetic Fields in Stellar Atmospheres in the Context of Solar and Stellar Flares
Klaus Jockers 50, 405
- Reorientation of Global Coronal Magnetic Fields Due to Differential Rotation
Shirley F. Hansen and Richard T. Hansen 51, 169
- The Mean Magnetic Field of the Sun: Method of Observation and Relation to the Interplanetary Magnetic Field
Philip H. Scherrer, John M. Wilcox, Valeri Kotov, A. B. Severny, and Robert Howard 52, 3
- Measurements of Magnetic Fluxes and Field Strengths in the Photospheric Network
Theodore D. Tarbell and Alan M. Title 52, 13
- Coronal General Magnetic Field Evolution as a New Parameter of the Solar Cycle
Hirokazu Yoshimura 52, 41
- Studies of Solar Magnetic Fields. V: The True Average Field Strengths near the Poles
Robert Howard 52, 243
- Gas Entry into Non-Spot Magnetic Tubes
R. G. Giovanelli 52, 315
- On a Possible Mechanism of Solar Faculae Heating
S. I. Vainstein, G. V. Kuklin, and V. P. Maksimov 53, 15
- Some Aspects of Coronal Streamer Dynamics
Wim J. Weber 53, 59
- Solar-Cycle Evolution of the Coronal General Magnetic Field of 1959-1974 and the Synchronous Variation of High-Speed Solar Wind Streams and Galactic Cosmic Rays
Hirokazu Yoshimura 54, 229
- Evolution of Photospheric Magnetic Field Patterns during Skylab
Randolph H. Levine 54, 327

- The Mean Magnetic Field of the Sun: Observations at Stanford
Philip H. Scherrer, John M. Wilcox, Leif Svalgaard, Thomas L. Duvall, Jr., Phil H. Dittmer, and Eric K. Gustafson **54**, 353
- On the Nature of Photospheric Magnetic Fields beneath Large Coronal Holes
S. Frankenthal and A. S. Krieger **55**, 83
- Do Changes in Coronal Emission Structure Imply Magnetic Reconnection?
J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. D. Petrasso, Z. Švestka, and D. G. Wentzel **55**, 401
- The Strength of the Sun's Polar Fields
Leif Svalgaard, Thomas L. Duvall, Jr., and Philip H. Scherrer **58**, 225
- Ephemeral Region Flares and the Diffusion of the Network
K. A. Marsh **59**, 105
- Photospheric Network from Study of Manganese Lines
G. Elste and R. G. Teske **59**, 275
- Instability by Magnetic Buoyancy
D. J. Acheson **62**, 23
- Frequency Response of Magnetic Flux Sheaths
P. Venkatakrishnan **63**, 135
- Structure and Evolution of Magnetic Network Features
N. Kömle **64**, 213
- Comment on 'Average Photospheric Poloidal and Toroidal Magnetic Field Components near Solar Minimum'
by Duvall *et al.*
P. Foukal and T. L. Duvall, Jr. **67**, 9
- An Exploratory Two-Dimensional Study of the Coarse Structure of Network Magnetic Fields
R. G. Giovanelli **68**, 49
- Green's Function Methods for Potential Magnetic Fields
Takashi Sakurai **76**, 301
- Thermodynamical Properties of Unresolved Magnetic Flux Tubes. I: A Diagnostic Method Based on Circular Polarization Ratios in Line Pairs
Egidio Landi Degl'Innocenti and Marco Landolfi **77**, 13
- On the Relative Roles of Unipolar and Mixed-Polarity Fields
Ronald G. Giovanelli **77**, 27
- Evidence for a Poleward Meridional Flow on the Sun
Ken Topka, Ron Moore, Barry J. LaBonte, and Robert Howard **79**, 231
- The Magnetic Flux in the Quiet Sun Network
Barry J. LaBonte and Robert Howard **80**, 15
- Poleward Migration of the Magnetic Neutral Line and the Reversal of the Polar Fields on the Sun. I: Period 1945-1981
V. I. Makarov, M. P. Fatianov, and K. R. Sivaraman **85**, 215
- Poleward Migration of the Magnetic Neutral Line and the Reversal of the Polar Fields on the Sun. II: Period 1904-1940
V. I. Makarov and K. R. Sivaraman **85**, 227
- H and K Ca II Plage Profiles Obtained with a Fourier Transform Spectrometer
P. Lemaire **88**, 31
- The Concentration of the Large-Scale Solar Magnetic Field by a Meridional Surface Flow
C. R. DeVore, N. R. Sheeley, Jr., and J. P. Boris **92**, 1
- Observations of the Reappearance of Polar Coronal Holes and the Reversal of the Polar Magnetic Field
D. F. Webb, J. M. Davis, and P. S. McIntosh **92**, 109
- Do Prominences Migrate Equatorwards?
V. I. Makarov **93**, 393
- A New Model for Flux Emergence and the Evolution of Sunspots and the Large-Scale Fields
P. S. McIntosh and P. R. Wilson **97**, 59
- Simulations of the Mean Solar Magnetic Field during Solar Cycle 21
N. R. Sheeley, Jr., C. R. DeVore, and J. P. Boris **98**, 219
- The Smallest Observable Elements of Magnetic Flux
Jingxiu Wang, Harold Zirin, and Zhongxian Shi **98**, 241
- Stokes-Spectro-Polarimetry with a Two-Dimensional Diode Array
W. Scholers and E. Wiehr **99**, 349

- The Solar Dynamo (*Invited Review Paper*)
 A. A. Ruzmaikin **100**, 125
- The Future of Solar Physics (*Invited Review Paper*)
 E. N. Parker **100**, 59
- Magnetic Fields, Chromosphere**
- Comments on a Flare of September 20, 1966
 Einar Tandberg-Hanssen **2**, 98
- Magnetic Fields and the Temperature Structure of the Chromosphere-Corona Interface
 Roger A. Kopp and Max Kuperus **4**, 212
- Chromospheric Magnetic Fields Associated with Supergranulation
 Alfred Clark, Jr. **4**, 386
- Polarized Light, Magnetographs, and Solar Magnetic Fields
 Charles L. Hyder **5**, 29
- The Chromospheric Magnetograph
 Glenn J. Veeder and Harold Zirin **12**, 391
- On the Topology of Filaments and Chromospheric Fibrils near Sunspots
 Y. Nakagawa, M. A. Raadu, D. E. Billings, and D. McNamara **19**, 72
- The Topology of Force-Free Magnetic Field near Bipolar Sunspots
 M. A. Raadu and Y. Nakagawa **20**, 64
- H α Fine Structure and the Chromospheric Field
 Peter Foukal **20**, 298
- Fine Structure of Solar Magnetic Fields
 Harold Zirin **22**, 34
- The Relations between Chromospheric Features and Photospheric Magnetic Fields
 Edward N. Frazier **24**, 98
- On Practical Representation of Magnetic Field
 Y. Nakagawa and M. A. Raadu **25**, 127
- Comments on the Paper 'Fine Structure of Solar Magnetic Fields' by H. Zirin
 Edward N. Frazier **26**, 142
- Response to Dr. Frazier's Comments
 Harold Zirin **26**, 145
- Reply to 'The Relation between Chromospheric Features and Photospheric Magnetic Fields' by E. N. Frazier
 Peter Foukal and Harold Zirin **26**, 148
- Comments on the Zirin-Frazier Controversy
 Chung-Chieh Cheng, K. J. H. Phillips, and Alistair M. Wilson **29**, 383
- The Topological Association of H α Structures and Magnetic Fields
 Y. Nakagawa, M. A. Raadu, and J. W. Harvey **30**, 421
- Magnetic Field and Electric Current Structure in the Chromosphere
 Dainis Dravins **37**, 323
- Changes of the H α Fibril Pattern during Solar Flares
 A. Bruzek **42**, 215
- The Calculation of Force-Free Fields from Discrete Flux Distributions
 N. R. Sheeley, Jr. and J. W. Harvey **45**, 275
- A Realistic Approach to Magnetic Evolution
 Edward N. Frazier **47**, 205
- Association of X-Ray Arches with Chromospheric Neutral Lines
 Patrick S. McIntosh, A. S. Krieger, J. T. Nolte, and G. Vaiana **49**, 57
- Measurements of the Magnetic Field and the Gradient of Temperature in the Solar Atmosphere above a
 Flocculus Using Radio Observations
 V. M. Bogod and G. B. Gelfreikh **67**, 29
- An Exploratory Two-Dimensional Study of the Coarse Structure of Network Magnetic Fields
 R. G. Giovanelli **68**, 49
- Magnetograph Response to Canopy-Type Fields
 Harrison P. Jones and Ronald G. Giovanelli **79**, 247
- Magnetic Fields, Corona**
- Magnetic Fields and the Temperature Structure of the Chromosphere-Corona Interface
 Roger A. Kopp and Max Kuperus **4**, 212

- Determination of the Coronal Magnetic Field and the Radio-Emitting Electron Energy from a Type IV Solar Radio Burst
Reuven Ramaty and Richard E. Lingenfelter **5**, 531
- A Model of Interplanetary and Coronal Magnetic Fields
Kenneth H. Schatten, John M. Wilcox, and Norman F. Ness **6**, 442
- Magnetic Fields and the Structure of the Solar Corona. I: Methods of Calculating Coronal Fields
Martin D. Altschuler and Gordon Newkirk, Jr. **9**, 131
- Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data
J. David Bohlin and M. Simon **9**, 183
- Flare-Associated Coronal Expansion Phenomena
Anton Bruzek and Howard L. DeMastus **12**, 447
- Evidence for a Coronal Magnetic Bottle at 10 Solar Radii
Kenneth H. Schatten **12**, 484
- Magnetic Fields and the Solar Corona. III: The Observed Connection between Magnetic Fields and the Density Structure of the Corona
Gordon Newkirk, Jr. and Martin D. Altschuler **13**, 131
- The Quasi-Stationary Coronal Magnetic Field and Electron Density as Determined from a Faraday Rotation Experiment
C. T. Stelzried, G. S. Levy, T. Sato, W. V. T. Rusch, J. E. Ohlson, K. H. Schatten, and J. M. Wilcox **14**, 440
- Coronal Magnetic Field Patterns Inferred from Radio Observations
M. F. Lantos-Jarry **15**, 40
- Preliminary Observations of Coronal Magnetic Fields before and after Solar Proton Events
Jesusa Valdez and Martin D. Altschuler **15**, 446
- The Rotation of Magnetic Loop Systems in the Solar Atmosphere
G. W. Pneuman **19**, 16
- Wave Propagation in the Warm Plasma and the Spectrum of the Solar Radio Bursts
L. Mollwo **19**, 128
- Coronal Magnetic Field of the Sun on 7 January 1969
Dorothy E. Trotter and Gordon Newkirk, Jr. **20**, 372
- The Coronal and Interplanetary Magnetic Fields at the Time of the Solar Eclipse of 7 March, 1970
J. O. Stenflo **21**, 263
- Differential Rotation and the Structure and Energy Content of Coronal Magnetic Fields
M. A. Raadu **22**, 443
- Coronal Emission Line Polarization
Lewis L. House **23**, 103
- Atlas of Magnetic Fields in the Solar Corona
Gordon Newkirk, Jr., Dorothy E. Trotter, and Martin D. Altschuler **24**, 370
- A Possibly Direct Measurement of Coronal Magnetic Field Strengths
Hans Rosenberg **25**, 188
- Radio Evidence of Twisted Bi-Polar Magnetic Fields in the Solar Corona
D. J. McLean and K. V. Sheridan **26**, 176
- Coronal Holes
Martin D. Altschuler, Dorothy E. Trotter, and Frank Q. Orrall **26**, 354
- Coronal Density and Temperature Gradients
R. Grant Athay **29**, 357
- Search for Circular Polarized Emission from Solar Hemispheres at Microwaves
P. Kaufmann, E. Scalise, Jr., R. E. Schaal, J. R. D. Lépine, D. Basu, and A. L. Ibañez **29**, 393
- Detailed Comparison of Type III Radio Bursts with $H\alpha$ Activity. II: The Isolated Type III Activity of March and April, 1971
T. B. H. Kuiper **33**, 461
- A Comparison of EUV Spectroheliograms and Photospheric Magnetograms
Joseph B. Gurman, George L. Withbroe, and John W. Harvey **34**, 105
- Coronal Disturbances. II: The Fast Rearrangement of Coronal Magnetic Fields
W. J. Wagner, Richard T. Hansen, and Shirley F. Hansen **34**, 453

Coronal Magnetic Structure at a Solar Sector Boundary

John M. Wilcox and Leif Svalgaard 34, 461

Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations

K. Kai and K. V. Sheridan 35, 181

Representations of Coronal Magnetic Fields Including Currents

Randolph H. Levine and Martin D. Altschuler 36, 345

A Model Combining the Polar and the Sector Structured Solar Magnetic Fields

Leif Svalgaard, John M. Wilcox, and Thomas L. Duvall 37, 157

XUV Observations of Coronal Magnetic Fields

N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. Scherrer, and R. Tousey 40, 103

Solar-Interplanetary Modeling: 3-D Solar Wind Solutions in Prescribed Non-Radial Magnetic Field Geometries

B. R. Durney and G. W. Pneuman 40, 461

A Comparison of Coronal X-Ray Structures of Active Regions with Magnetic Fields Computed from Photospheric Observations

G. Poletto, G. S. Vaiana, M. V. Zombeck, A. S. Krieger, and A. F. Timothy 44, 83

Differential Rotation and Reconnection as Basic Causes of Some Coronal Reorientations

Shirley F. Hansen and Richard T. Hansen 44, 503

A New Technique for the Determination of Coronal Magnetic Fields: A Fixed Mesh Solution to Laplace's Equation Using Line-of-Sight Boundary Conditions

John Adams and G. W. Pneuman 46, 185

Energy Released by the Interaction of Coronal Magnetic Fields

N. R. Sheeley, Jr. 47, 173

White Light and Radio Studies of the Coronal Transient of 14-15 September 1973: I: Material Motions and Magnetic Field

G. A. Dulk, S. F. Smerd, R. M. MacQueen, J. T. Gosling, A. Magun, R. T. Stewart, K. V. Sheridan, R. D. Robinson, and S. Jacques 49, 369 *Erratum/Replacement Figure: Fig. 1-53, 547*

Magnetic Reconnection in the Corona and the Loop Prominence Phenomenon

R. A. Kopp and G. W. Pneuman 50, 85

Coronal Faraday Rotation of the Crab Nebula, 1971-1975

Y. Sofue, K. Kawabata, F. Takahashi, and N. Kawajiri 50, 465

The Shock Waves and the Magnetic Field in the Corona above the Active Region on February 17-28, 1969

Irena Garczyńska 51, 131

Reorientation of Global Coronal Magnetic Fields Due to Differential Rotation

Shirley F. Hansen and Richard T. Hansen 51, 169

High Resolution Mapping of the Magnetic Field of the Solar Corona

Martin D. Altschuler, Randolph H. Levine, Michael Stix, and John Harvey 51, 345

Coronal General Magnetic Field Evolution as a New Parameter of the Solar Cycle

Hirokazu Yoshimura 52, 41

A Long-Lived Coronal Arch System Observed in X-Rays

J. P. McGuire, E. Tandberg-Hanssen, K. R. Krall, S. T. Wu, J. B. Smith, and D. M. Speich 52, 91

Magnetic Field and Current Sheets in the Corona above Active Regions

Takashi Sakurai and Yutaka Uchida 52, 397

Computer Solutions for Studying Correlations between Solar Magnetic Fields and Skylab X-Ray Observations

D. Teuber, E. Tandberg-Hanssen, and M. J. Hagyard 53, 97

Development of a Complex of Activity in the Solar Corona

Robert Howard and Zdeněk Švestka 54, 65 *Erratum 56, 471*

Solar-Cycle Evolution of the Coronal General Magnetic Field of 1959-1974 and the Synchronous Variation of High-Speed Solar Wind Streams and Galactic Cosmic Rays

Hirokazu Yoshimura 54, 229

A New Determination of the Granule/Intergranule Contrast

R. J. Bray and R. E. Loughhead 54, 319

Temporal Evolution of the Equatorial K-Corona

R. M. MacQueen and A. I. Poland 55, 143

Subsonic Flows in the Coronal-Interplanetary Regions of Closed Field Lines

Tyan Yeh 55, 241

Open Magnetic Fields in Active Regions

Zdeněk Švestka, Graig V. Solodyna, Robert Howard, and Randolph H. Levine **55**, 359

The Structure of Coronal Magnetic Loops. II: MHD Stability Theory

Riccardo Giachetti, Gerard Van Hoven, and Claudio Chiuderi **55**, 371

Do Changes in Coronal Emission Structure Imply Magnetic Reconnection?

J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. D. Petraso, Z. Švestka, and D. G. Wentzel **55**, 401

Extreme Ultraviolet Observations of Coronal Holes. II: Association of Holes with Solar Magnetic Fields and a Model for Their Formation during the Solar Cycle

J. D. Bohlin and N. R. Sheeley, Jr. **56**, 125

Coronal Hole Evolution by Sudden Large Scale Changes

Jerome T. Nolte, Michel Gerassimenko, Allen S. Krieger, and Craig V. Solodyna **56**, 153

Topological Structure of Coronal-Interplanetary Magnetic Field

Tyan Yeh **56**, 439

Coronal Magnetic Fields

G. A. Dulk and D. J. McLean **57**, 279

On the Reality of Potential Magnetic Fields in the Solar Corona

G. W. Pneuman, S. F. Hansen, and R. T. Hansen **59**, 313

Coronal Magnetic-Field Model with Non-Spherical Source Surface

Michael Schulz, Edward N. Frazier, and Donald J. Boucher, Jr. **60**, 83

A Comparison of the Temperature and Emission Measure of X-Ray Active Regions with Coronal Magnetic Fields

J. B. Burl, R. G. Teske, and E. B. Mayfield **63**, 157

Comment on Coronal Magnetic Field Models

Kenneth H. Schatten **63**, 275

The Orientation of Pre-Transient Coronal Magnetic Fields

Gerard Trotter and R. M. MacQueen **68**, 177

Estimation of Coronal Magnetic Field from Razin Effect in Solar Decametric Continuum Burst

R. V. Bhonsle and S. S. Degaonkar **68**, 339

A Comparison of Type III Metric Radio Bursts and Global Solar Potential Field Models

Bernard V. Jackson and Randolph H. Levine **73**, 183

Modelling Coronal Magnetic Fields

D. P. Rowse and I. W. Roxburgh **74**, 165

Polar Coronal Plumes

Steven T. Suess **75**, 145

Computation of Inner Coronal Magnetic Fields from Longitudinal Field Components on a Spherical Photosphere

G. Elwert, K. Müller, L. Thür, and P. Balz **75**, 205

Model for Flare Loops, Fast Motions, and Opening of Magnetic Field in the Corona

S. I. Syrovatskii **76**, 3

The Evolution and the Secondary Maximum of the Green Line Intensity

J. Xanthakis, B. Petropoulos, and H. Mavromichalaki **76**, 181

Magnetostatic Atmospheres: A Family of Isothermal Solutions

Ellen G. Zweibel and A. J. Hundhausen **76**, 261

Simulation of the Magnetic Structure of the Inner Heliosphere by Means of a Non-Spherical Source Surface

Randolph H. Levine, Michael Schulz, and E. N. Frazier **77**, 363

Comparison of Coronal Emission-Line Structure and Polarization

Charles W. Querfeld and Raymond N. Smartt **91**, 299

Over-Reflection of Hydromagnetic Planetary-Gravity Waves at the Solar Helmet Streamers and Magnetic Sectors

O. M. El Mekki **96**, 397

White-Light and Radio Sounding Observations of Coronal Transients

M. K. Bird, H. Volland, R. A. Howard, M. J. Koomen, D. J. Michels, N. R. Sheeley, Jr., J. W. Armstrong, B. L. Seidel, C. T. Stelzried, and R. Woo **98**, 341

Magnetic Fields, Current Free (*see Magnetic Fields, Models*)
Magnetic Fields, Dissipation (*see Magnetic Fields*)
Magnetic Fields, Force Free (*see Magnetic Fields, Models*)

Magnetic Fields, General (*see Magnetic Fields*)

Magnetic Fields, Generation (*see Magnetic Fields*)

Magnetic Fields, Interior (*see Magnetic Fields*)

Magnetic Fields, Internetwork (*see Magnetic Fields*)

Magnetic Fields, Interplanetary

Interplanetary Sector Structure, 1962-1966

Norman F. Ness and John M. Wilcox 2, 351

Micro-Scale Structures in the Interplanetary Medium

Leonard F. Burlaga 4, 67

Effects Associated with the Sector Boundary Crossing on July 8, 1966

Z. Švestka 4, 361

A Remark on 'Effects Associated with the Sector Boundary Crossing on July 8, 1966' by Z. Švestka

L. Křivský 4, 373

The Physical Significance of the Unusual Worldwide Fluctuations of Cosmic-Ray Intensity on July 14-15, 1961

H. S. Ahluwalia, M. Zubieta, and M. Schreier 4, 453

Influence of a Solar Active Region on the Interplanetary Magnetic Field

Kenneth H. Schatten, Norman F. Ness, and John M. Wilcox 5, 240

A Large-Scale Pattern in the Solar Magnetic Field

John M. Wilcox and Robert Howard 5, 564

'Bartels' Active Longitudes', Sector Boundaries and Flare Activity

V. Bumba and V. N. Obridko 6, 104

Sudden Commencement Associated Discontinuities in the Interplanetary Magnetic Field Observed by IMP 3

Harold E. Taylor 6, 320

A Model of Interplanetary and Coronal Magnetic Fields

Kenneth H. Schatten, John M. Wilcox, and Norman F. Ness 6, 442

Simultaneous Plasma and Magnetic-Field Measurements of Probable Tangential Discontinuities in the Solar Wind

George L. Siscoe, James M. Turner, and Alan J. Lazarus 6, 456

Directional Discontinuities in the Interplanetary Magnetic Field

Leonard F. Burlaga 7, 54

Large Velocity Discontinuities in the Solar Wind

Leonard F. Burlaga 7, 72

A Comparison of the Photospheric and Interplanetary Magnetic Fields during the Flight of Mariner IV

John B. Winters, Jae R. Ballif, and Douglas E. Jones 7, 478

Power Spectra of the Interplanetary Magnetic Field

James W. Sari and Norman F. Ness 8, 155 *Erratum 18, 176*

On the North-South Asymmetry in the Solar Wind

G. L. Siscoe and P. J. Coleman, Jr. 8, 415

Hydromagnetic Shocks in the Solar Wind

K. W. Ogilvie and L. F. Burlaga 8, 422 *Errata 11, 180*

Tangential Discontinuities in the Solar Wind

Leonard F. Burlaga and Norman F. Ness 9, 467

The Quasi-Stationary Coronal Magnetic Field and Electron Density as Determined from a Faraday Rotation Experiment

C. T. Stelzried, G. S. Levy, T. Sato, W. V. T. Rusch, J. E. Ohlson, K. H. Schatten, and J. M. Wilcox 14, 440

Comparison of the Mean Photospheric Magnetic Field and the Interplanetary Magnetic Field

A. Severny, J. M. Wilcox, P. H. Scherrer, and D. S. Colburn 15, 3

The Origin of Interplanetary Sectors from Radio Observations

M. Martres, M. Pick, and G. K. Parks 15, 48

Magnetic and Thermal Pressures in the Solar Wind

L. F. Burlaga and K. W. Ogilvie 15, 61

Unified Theory of the Interplanetary Magnetic Field

Ronald L. Ronsenberg 15, 72

- A 'Source Surface Theory' Corollary: The Mean Solar Field-Interplanetary Field Correlation
K. H. Schatten **15**, 499
- Active Solar Radio Regions at Metric Frequencies and the Interplanetary Sector Structures
Kunitomo Sakurai and Robert G. Stone **19**, 247
- Propagation of Low Energy Protons Associated with the 24 January 1969 Solar Flare
A. Balogh, P. C. Hedgecock, R. J. Hynds, and J. Sear **20**, 150
- The Coronal and Interplanetary Magnetic Fields at the Time of the Solar Eclipse of 7 March, 1970
J. O. Stenflo **21**, 263
- Streaming of Galactic Cosmic Rays in the Interplanetary Magnetic Field
A. Hashim, M. Bercovitch, and J. F. Steljes **22**, 220
- The Mean Photospheric Magnetic Field from Solar Magnetograms: Comparisons with the Interplanetary Magnetic Field
Philip H. Scherrer, John M. Wilcox, and Robert Howard **22**, 418
- Differential Rotation and the Structure and Energy Content of Coronal Magnetic Fields
M. A. Raadu **22**, 443
- Differential Rotation in the Solar Atmosphere Inferred from Optical, Radio, and Interplanetary Data
Mohamed El-Raey and Philip H. Scherrer **26**, 15
- Evidence for Confinement of Low-Energy Cosmic Rays Ahead of Interplanetary Shock Waves
R. A. R. Palmeira and F. R. Allum **30**, 243
- Large-Scale Structure of the Interplanetary Medium. II: Evolving Magnetic Configurations Deduced from Multi-Spacecraft Observations
J. T. Nolte and E. C. Roelof **33**, 483
- Coronal Magnetic Structure at a Solar Sector Boundary
John M. Wilcox and Leif Svalgaard **34**, 461
- Eleven-Years Inversion of the Green Corona Emission
Ester Antonucci **34**, 471
- The Relationship between the Slowly Varying Component of Solar Radio Emission and Large Scale Photospheric Magnetic Field Patterns
P. H. Scherrer and M. El-Raey **35**, 361
- On the Limitations of Geomagnetic Measures of Interplanetary Magnetic Polarity
C. T. Russell and R. L. Rosenberg **37**, 251
- Observation of Sectored Structure in the Outer Solar Corona: Correlation with Interplanetary Magnetic Field
R. A. Howard and M. J. Koomen **37**, 469
- Cosmic Ray Anisotropies Observed Late in the Decay Phase of Solar Flare Events
F. R. Allum, R. A. R. Palmeira, K. G. McCracken, U. R. Rao, D. H. Fairfield, and L. J. Gleeson **38**, 227
- An Investigation of Some Large Directional Discontinuities in the Solar Wind Plasma Using Multisatellite Observations
S. Webb and J. J. Quenby **38**, 257
- Solar Cycle Variation of Large-Scale Coronal Structures
Ester Antonucci and Thomas L. Duvall **38**, 439
- A Comment on the Detection of Closed Magnetic Structures in the Solar Wind
J. T. Gosling and E. C. Roelof **39**, 405
- Intensities and Anisotropies of Low Energy Solar Protons Measured Aboard the Satellites Azur, Explorer 35 and 41, November 1969-April 1970
E. Kirsch and J. W. Münch **39**, 459
- Magnetic and Thermal Energies in the Solar Wind
L. Diodato, G. Moreno, and C. Signorini **40**, 231
- The Relationship between Solar Flares and Solar Sector Boundaries
Phil H. Dittmer **41**, 227
- Long Term Evolution of Solar Sector Structure
Leif Svalgaard and John M. Wilcox **41**, 461
- On the Possibility of Deducing Interplanetary and Solar Parameters from Geomagnetic Records
C. T. Russell **42**, 259
- Measurements of the Interplanetary Magnetic Field in Relation to the Modulation of Cosmic Rays
P. C. Hedgecock **42**, 497

- The Heliographic Latitude Dependence and Sector Structure of the Interplanetary Magnetic Field 1969-1974:
Results from the HEOS Satellites
P. C. Hedgecock 44, 205
- Relation of the Observed Far Ultraviolet Solar Irradiance to the Solar Magnetic Sector Structure
Donald F. Heath, John M. Wilcox, Leif Svalgaard, and Thomas L. Duvall 45, 79
- The Sun's Magnetic Sector Structure
Leif Svalgaard, John M. Wilcox, Philip H. Scherrer, and Robert Howard 45, 83
- Search for Long Term Variations of the Interplanetary Magnetic Field
F. Mariani, L. Diodato, and G. Moreno 45, 241
- Coronal Holes as Sources of Solar Wind
J. T. Nolte, A. S. Krieger, A. F. Timothy, R. E. Gold, E. C. Roelof, G. Vaiana, A. J. Lazarus, J. D. Sullivan, and P. S. McIntosh 46, 303 *Erratum/Replacement Figure: Fig. 2 - 53, 547*
- Magnetosphere and Magnetospheric Substorms (*Extended abstract*)
S.-I. Akasofu 47, 321
- Prospectus for the Solar Maximum Year (*Invited Report*)
H. Zirin and K. Tanaka 47, 385
- Direction-Finding Measurements of Type III Radio Bursts out of the Ecliptic Plane
Mark M. Baumbach, William S. Kurth, and Donald A. Gurnett 48, 361
- Magnetic Field of the Solar Wind
M. I. Pudovkin and A. D. Chertkov 50, 213
- Energetic Properties of Interplanetary Plasma at the Earth's Orbit Following the August 4, 1972 Flare
C. D'Uston, J. M. Bosqued, F. Cambou, V. V. Temny, G. N. Zastenker, O. L. Vaisberg, and E. G. Eroshenko 51, 217
- The Mean Magnetic Field of the Sun: Method of Observation and Relation to the Interplanetary Magnetic Field
Philip H. Scherrer, John M. Wilcox, Valeri Kotov, A. B. Severny, and Robert Howard 52, 3
- Radio Observations of Interplanetary Magnetic Field Structures out of the Ecliptic
R. J. Fitzenreiter, J. Fainberg, R. R. Weber, H. Alvarez, F. T. Haddock, and W. H. Potter 52, 477
- A Pictorial Comparison of Interplanetary Magnetic Field Polarity, Solar Wind Speed, and Geomagnetic Disturbance Index during the Sunspot Cycle
N. R. Sheeley, Jr., J. R. Asbridge, S. J. Bame, and J. W. Harvey 52, 485
- Probability Distribution Functions of Microscale Magnetic Fluctuations during Quiet Conditions
Y. C. Whang 53, 507
- The Structure of the Solar Flare Stream Magnetic Field
M. I. Pudovkin, S. A. Zaitseva, I. P. Oleferenko, and A. D. Chertkov 54, 155
- Solar-Cycle Evolution of the Coronal General Magnetic Field of 1959-1974 and the Synchronous Variation of High-Speed Solar Wind Streams and Galactic Cosmic Rays
Hiroyasu Yoshimura 54, 229
- A New Determination of the Granule/Intergranule Contrast
R. J. Bray and R. E. Loughhead 54, 319
- The Mean Magnetic Field of the Sun: Observations at Stanford
Philip H. Scherrer, John M. Wilcox, Leif Svalgaard, Thomas L. Duvall, Jr., Phil H. Dittmer, and Eric K. Gustafson 54, 353
- A Sheet-Current Approach to Coronal-Interplanetary Modeling
Tyan Yeh and G. W. Pneuman 54, 419
- Analysis of the Complex Solar Particle Event on April 29-30, 1973
T. Gombosi, J. Kóta, A. J. Somogyi, V. G. Kurt, B. M. Kuzhevskii, and Yu. I. Logachev 54, 441
- Subsonic Flows in the Coronal-Interplanetary Regions of Closed Field Lines
Tyan Yeh 55, 241
- Large-Scale Three-Dimensional Structure of the Interplanetary Magnetic Field
N. P. Korzhov 55, 505
- Topological Structure of Coronal-Interplanetary Magnetic Field
Tyan Yeh 56, 439
- A Solar Cycle Variation of the Interplanetary Magnetic Field
G. L. Siscoe, N. U. Crooker, and L. Christopher 56, 449
- The August 1972 Cosmic Ray Storm. North-South Anisotropies and Related Phenomena
A. Geranios 58, 201

Coronal Magnetic-Field Model with Non-Spherical Source SurfaceMichael Schulz, Edward N. Frazier, and Donald J. Boucher, Jr. **60**, 83**Magnetic Dips in the Solar Wind**M. Dobrowolny, B. Bavassano, F. Mariani, and N. Ness **62**, 203**Spatial Distribution of Large-Scale Solar Magnetic Fields and Their Relation to the Interplanetary Magnetic Field**Randolph H. Levine **62**, 277**An Extended Investigation of Helios 1 and 2 Observations: The Interplanetary Magnetic Field between 0.3 and 1 AU**F. Mariani, U. Villante, R. Bruno, B. Bavassano, and N. F. Ness **63**, 411**On the Three-Dimensional Structure of the Solar Magnetic Field in Interplanetary Space**Osamu Kaburaki and Yuzuru Yoshii **64**, 187**Recurrency and the Origin of the Vertical Component of the Interplanetary Magnetic Field**M. I. Pudovkin, D. I. Ponyavin, and A. D. Chertkov **66**, 411**Passage of the Solar Current Disk and Major Geomagnetic Storms**S.-I. Akasofu **71**, 175**On the Nature of the Apparent Response of the Vorticity Area Index to the Solar Magnetic Field**J. M. Wilcox and P. H. Scherrer **74**, 421**Latitudinal and Solar-Cycle Dependence of the Interplanetary Magnetic Field Predominant Polarity**Xenophon Moussas and Basil Tritakis **75**, 361**Simulation of the Magnetic Structure of the Inner Heliosphere by Means of a Non-Spherical Source Surface**Randolph H. Levine, Michael Schulz, and E. N. Frazier **77**, 363**Statistical Properties of MHD Fluctuations Associated with High Speed Streams from Helios-2 Observations**B. Bavassano, M. Dobrowolny, G. Fanfoni, F. Mariani, and N. F. Ness **78**, 373**On Interplanetary Electric and Magnetic Fields**I. I. Alexeev, A. P. Kropotkin, and I. S. Veselovsky **79**, 385**Magnetic Clouds: Voyager Observations between 2 and 4 AU**L. F. Burlaga and K. W. Behannon **81**, 181**The Radial Evolution of the IMF Fluctuations: A Comparison with Theoretical Models**U. Villante and M. Vellante **81**, 367**A Statistical Study of MHD Discontinuities in the Inner Solar System: Helios 1 and 2**F. Mariani, B. Bavassano, and U. Villante **83**, 349**On the E-W Asymmetry and the Generation of ESP Events**E. T. Sarris, G. C. Anagnostopoulos, and P. C. Trochoutsos **93**, 195**Dependence of the Flare Stream Velocity on Magnetic Field Orientation**M. I. Pudovkin, S. A. Zaitseva, and S. P. Puchenkina **95**, 371**Geomagnetic Disturbances Associated with Disappearing Solar Filaments**J. Hanumath Sastri, K. B. Ramesh, and J. V. S. V. Rao **98**, 177**Magnetic Fields, Interplanetary Sector Structure****Solar Source of the Interplanetary Sector Structure**John M. Wilcox and Norman F. Ness **1**, 437**Interplanetary Sector Structure, 1962-1966**Norman F. Ness and John M. Wilcox **2**, 351**Effects Associated with the Sector Boundary Crossing on July 8, 1966**Z. Švestka **4**, 361**A Remark on 'Effects Associated with the Sector Boundary Crossing on July 8, 1966' by Z. Švestka**L. Krivský **4**, 373**Influence of a Solar Active Region on the Interplanetary Magnetic Field**Kenneth H. Schatten, Norman F. Ness, and John M. Wilcox **5**, 240**A Large-Scale Pattern in the Solar Magnetic Field**John M. Wilcox and Robert Howard **5**, 564**'Bartels' Active Longitudes', Sector Boundaries and Flare Activity**V. Bumba and V. N. Obridko **6**, 104**Corotating Structure in the Solar Wind**R. L. Carvillano and G. L. Siscoe **8**, 401

On the North-South Asymmetry in the Solar Wind

G. L. Siscoe and P. J. Coleman, Jr. **8**, 415

Comparison of the Mean Photospheric Magnetic Field and the Interplanetary Magnetic Field

A. Severny, J. M. Wilcox, P. H. Scherrer, and D. S. Colburn **15**, 3

The Origin of Interplanetary Sectors from Radio Observations

M. Martres, M. Pick, and G. K. Parks **15**, 48

Unified Theory of the Interplanetary Magnetic Field

Ronald L. Ronsenberg **15**, 72

Anisotropy Characteristics of Low Energy Cosmic Ray Population of Solar Origin

U. R. Rao, K. G. McCracken, F. R. Allum, R. A. R. Palmeira, W. C. Bartley, and I. Palmer **19**, 209

Active Solar Radio Regions at Metric Frequencies and the Interplanetary Sector Structures

Kunitomo Sakurai and Robert G. Stone **19**, 247

The Coronal and Interplanetary Magnetic Fields at the Time of the Solar Eclipse of 7 March, 1970

J. O. Stenflo **21**, 263

The Mean Photospheric Magnetic Field from Solar Magnetograms: Comparisons with the Interplanetary Magnetic Field

Philip H. Scherrer, John M. Wilcox, and Robert Howard **22**, 418

Differential Rotation in the Solar Atmosphere Inferred from Optical, Radio, and Interplanetary Data

Mohamed El-Raey and Philip H. Scherrer **26**, 15

Equatorial Coronal Arches and Geomagnetic Disturbance

C. Sawyer and Shirley F. Hansen **26**, 370

Coronal Magnetic Structure at a Solar Sector Boundary

John M. Wilcox and Leif Svalgaard **34**, 461

Eleven-Years Inversion of the Green Corona Emission

Ester Antonucci **34**, 471

The Relationship between the Slowly Varying Component of Solar Radio Emission and Large Scale Photospheric Magnetic Field Patterns

P. H. Scherrer and M. El-Raey **35**, 361

Observation of Sectorized Structure in the Outer Solar Corona: Correlation with Interplanetary Magnetic Field

R. A. Howard and M. J. Koomen **37**, 469

Solar Cycle Variation of Large-Scale Coronal Structures

Ester Antonucci and Thomas L. Duvall **38**, 439

The Relationship between Solar Flares and Solar Sector Boundaries

Phil H. Dittmer **41**, 227

Long Term Evolution of Solar Sector Structure

Leif Svalgaard and John M. Wilcox **41**, 461

Solar Radio Emission at 9.1 cm and Sector Boundaries

W. Graf and R. N. Bracewell **44**, 195

The Heliographic Latitude Dependence and Sector Structure of the Interplanetary Magnetic Field 1969-1974: Results from the HEOS Satellites

P. C. Hedgecock **44**, 205

Relation of the Observed Far Ultraviolet Solar Irradiance to the Solar Magnetic Sector Structure

Donald F. Heath, John M. Wilcox, Leif Svalgaard, and Thomas L. Duvall **45**, 79

The Sun's Magnetic Sector Structure

Leif Svalgaard, John M. Wilcox, Philip H. Scherrer, and Robert Howard **45**, 83

Low-Energy Particle Events Associated with Sector Boundaries

Z. Švestka, L. Fritzová-Švestková, J. T. Nolte, H. W. Dodson-Prince, and E. R. Hedeman **50**, 491

The Mean Magnetic Field of the Sun: Observations at Stanford

Philip H. Scherrer, John M. Wilcox, Leif Svalgaard, Thomas L. Duvall, Jr., Phil H. Dittmer, and Eric K. Gustafson **54**, 353

Large-Scale Three-Dimensional Structure of the Interplanetary Magnetic Field

N. P. Korzhov **55**, 505

An Observational Search for Large-Scale Organization of Five-Minute Oscillations on the Sun

Phil H. Dittmer, Philip H. Scherrer, and John M. Wilcox **57**, 3

Spatial Distribution of Large-Scale Solar Magnetic Fields and Their Relation to the Interplanetary Magnetic Field

Randolph H. Levine **62**, 277

A Solar Cycle Variation of the Interplanetary Magnetic Field Configuration

Basil P. Tritakis **63**, 207

Preferred Bartels Days of High-Speed Plasma Streams in the Solar Wind

B. A. Lindblad **74**, 187

Latitudinal and Solar-Cycle Dependence of the Interplanetary Magnetic Field Predominant Polarity

Xenophon Moussas and Basil Tritakis **75**, 361

Measurement of the Solar Diurnal Anisotropy of the Cosmic-Ray Albedo Neutron Flux

S. O. Ifedili **76**, 393

Interpretation of ^3He Abundance Variations in the Solar Wind

M. A. Coplan, K. W. Ogilvie, P. Bochsler, and J. Geiss **93**, 415

Solar Noise Storms and Magnetic Sector Structures

R. T. Stewart **96**, 381

Magnetic Fields, Models

Magnetic-Field Accumulation in Supergranules

Alfred Clark, Jr. and H. Kevin Johnson **2**, 433

The Stability of Force-Free Magnetic Fields with Cylindrical Symmetry in the Context of Solar Flares

Ulrich Anzer **3**, 298

Remarks on My Paper about Force-Free Magnetic Fields and Solar Flares

Ulrich Anzer **4**, 101

Chromospheric Magnetic Fields Associated with Supergranulation

Alfred Clark, Jr. **4**, 386

A Model of Interplanetary and Coronal Magnetic Fields

Kenneth H. Schatten, John M. Wilcox, and Norman F. Ness **6**, 442

Magnetic Fields and the Structure of the Solar Corona. I: Methods of Calculating Coronal Fields

Martin D. Altschuler and Gordon Newkirk, Jr. **9**, 131

Magnetic Fields and the Solar Corona. III: The Observed Connection between Magnetic Fields and the Density Structure of the Corona

Gordon Newkirk, Jr. and Martin D. Altschuler **13**, 131

Production of the Solar Magnetic Fine-Structure by Convection

S. R. Weart **14**, 274

Unified Theory of the Interplanetary Magnetic Field

Ronald L. Ronsenberg **15**, 72

Preliminary Observations of Coronal Magnetic Fields before and after Solar Proton Events

Jesusa Valdez and Martin D. Altschuler **15**, 446

The Rotation of Magnetic Loop Systems in the Solar Atmosphere

G. W. Pneuman **19**, 16

On the Topology of Filaments and Chromospheric Fibrils near Sunspots

Y. Nakagawa, M. A. Raadu, D. E. Billings, and D. McNamara **19**, 72

The Topology of Force-Free Magnetic Field near Bipolar Sunspots

M. A. Raadu and Y. Nakagawa **20**, 64

The Dynamics of a Toroidal Magnetic Ring

Carl G. Lilliequist, Martin D. Altschuler, and Yoshinari Nakagawa **20**, 348

Coronal Magnetic Field of the Sun on 7 January 1969

Dorothy E. Trotter and Gordon Newkirk, Jr. **20**, 372

Differential Rotation and the Structure and Energy Content of Coronal Magnetic Fields

M. A. Raadu **22**, 443

A Method to Calculate Electric Currents in Quiescent Prominences

Ulrich Anzer **24**, 324

On Practical Representation of Magnetic Field

Y. Nakagawa and M. A. Raadu **25**, 127

Coronal Holes

Martin D. Altschuler, Dorothy E. Trotter, and Frank Q. Orrall **26**, 354

The Magnetic Configuration of the November 18, 1968 Loop Prominence System

J.-René Roy **26**, 418

On the Small-Scale Structure of Solar Magnetic Fields

E. N. Frazier and J. O. Stenflo **27**, 330

The Magnetic Properties of Solar Surges

J.-René Roy 28, 95

The Topological Association of H α Structures and Magnetic Fields

Y. Nakagawa, M. A. Raadu, and J. W. Harvey 30, 421

Why Syrovatskii's Mechanism of Dynamic Dissipation of Magnetic Fields Does Not Work

Ulrich Anzer 30, 459

Force-Free Magnetic Fields and Flares of August 1972

K. Tanaka and Y. Nakagawa 33, 187

Magnetic Fields, Loop Prominences and the Great Flares of August, 1972

David M. Rust and Varda Bar 33, 445

Coronal Magnetic Structure at a Solar Sector Boundary

John M. Wilcox and Leif Svalgaard 34, 461

Curvature and Surface Distribution of the Polar Rays in the Solar Corona on 12 November 1966

J. G. Kirk and J. S. Newby 35, 377

Representations of Coronal Magnetic Fields Including Currents

Randolph H. Levine and Martin D. Altschuler 36, 345

A Model Combining the Polar and the Sector Structured Solar Magnetic Fields

Leif Svalgaard, John M. Wilcox, and Thomas L. Duvall 37, 157

Magnetic Field and Electric Current Structure in the Chromosphere

Dainis Dravins 37, 323

Equilibrium and Stability of Force-Free Magnetic Field

M. M. Molodensky 39, 393

Preflare Current Sheets in the Solar Atmosphere

E. R. Priest and M. A. Raadu 43, 177

Equilibrium and Stability of the Force-Free Magnetic Field. II: Stability

M. M. Molodensky 43, 311

A Comparison of Coronal X-Ray Structures of Active Regions with Magnetic Fields Computed from Photospheric Observations

G. Poletto, G. S. Vaiana, M. V. Zombeck, A. S. Krieger, and A. F. Timothy 44, 83

The Representation of Magnetic Field Lines from Magnetograph Data

Randolph H. Levine 44, 365

The Calculation of Force-Free Fields from Discrete Flux Distributions

N. R. Sheeley, Jr. and J. W. Harvey 45, 275

Evidence for Opposed Currents in Active Region Loops

Randolph H. Levine 46, 159

A New Technique for the Determination of Coronal Magnetic Fields: A Fixed Mesh Solution to Laplace's Equation Using Line-of-Sight Boundary Conditions

John Adams and G. W. Pneuman 46, 185

Current Sheet Models of Solar Flares (*Invited Paper*)

E. R. Priest 47, 41

Evidence for Magnetic Energy Storage in Coronal Active Regions

A. S. Krieger, L. D. de Feiter, and G. S. Vaiana 47, 117

On Build-Up of Magnetic Energy in the Solar Atmosphere

Y. Nakagawa, R. S. Steinolfson, and S. T. Wu 47, 193

A Realistic Approach to Magnetic Evolution

Edward N. Frazier 47, 205

Reconnection, Caused by Nonexistence of Force-Free Equilibria, as a Mechanism for Solar Flares (*Abstract*)

K. Jockers 47, 221

The Relevance of Solar Flares to Astrophysics (*Invited Paper*)

P. A. Sturrock and J. W. Knight 47, 401

The Formation of Current Sheets during the Emergence of New Magnetic Flux from below the Photosphere

T. J. Tur and E. R. Priest 48, 89

Equilibrium and Stability of the Force-Free Magnetic Field, III

M. M. Molodensky 49, 279

Phase Relation between the Poloidal and Toroidal Solar-Cycle General Magnetic Fields and Location of the Origin of the Surface Magnetic Fields

Hirokazu Yoshimura 50, 3

- On the Excited States of Magnetic Configurations in Connection with the Characteristic Properties of Sunspots
V. A. Krat and V. A. Osherovitch **50**, 65
- Magnetic Reconnection in the Corona and the Loop Prominence Phenomenon
R. A. Kopp and G. W. Pneuman **50**, 85
- Pressure Equilibrium and Energy Balance of Small Photospheric Fluxtubes
H. C. Spruit **50**, 269
- Upper Limits in the Toroidal Component of Force-Free Magnetic Fields in Stellar Atmospheres in the Context of Solar and Stellar Flares
Klaus Jockers **50**, 405
- Skinning Process Stability of the Magnetic Field in the Solar Active Regions
V. S. Sokolov, S. S. Katsnelson, A. G. Kosovichev, and V. S. Slavin **51**, 293
- High Resolution Mapping of the Magnetic Field of the Solar Corona
Martin D. Altschuler, Randolph H. Levine, Michael Stix, and John Harvey **51**, 345
- Heating and Reconnection of the Emerging Magnetic Flux-Tubes and the Role of the Interchange Instability
Yutaka Uchida and Takashi Sakurai **51**, 413
- A Long-Lived Coronal Arch System Observed in X-Rays
J. P. McGuire, E. Tandberg-Hanssen, K. R. Krall, S. T. Wu, J. B. Smith, and D. M. Speich **52**, 91
- Magnetic Field and Current Sheets in the Corona above Active Regions
Takashi Sakurai and Yutaka Uchida **52**, 397
- The Spiral Configuration of Sunspot Magnetic Fields
M. J. Hagyard, E. A. West, and N. P. Cumings **53**, 3
- Computer Solutions for Studying Correlations between Solar Magnetic Fields and Skylab X-Ray Observations
D. Teuber, E. Tandberg-Hanssen, and M. J. Hagyard **53**, 97
- Electric Fields in the Solar Atmosphere
D. T. F. Möhlmann **54**, 151
- The Stability of a Magnetic Flux Element in a Horizontally Stratified Compressible Plasma
P. R. Wilson **55**, 35
- Subsonic Flows in the Coronal-Interplanetary Regions of Closed Field Lines
Tyan Yeh **55**, 241
- Open Magnetic Fields in Active Regions
Zdeněk Švestka, Graig V. Solodyna, Robert Howard, and Randolph H. Levine **55**, 359
- The Structure of Coronal Magnetic Loops. II: MHD Stability Theory
Riccardo Giachetti, Gerard Van Hoven, and Claudio Chiuderi **55**, 371
- Bifurcation of Force-Free Solar Magnetic Fields: A Numerical Approach
Klaus Jockers **56**, 37
- Linear Force-Free Fields in the Lower Corona
D. D. Barbosa **56**, 55
- Topological Structure of Coronal-Interplanetary Magnetic Field
Tyan Yeh **56**, 439
- A Theory of the Onset of Solar Eruptive Processes
J. Birn, H. Goldstein, and K. Schindler **57**, 81
- Comparisons of Measured and Calculated Potential Magnetic Fields
M. J. Hagyard and D. Teuber **57**, 267
- Physical Conditions in the Corona for a Bipolar Magnetic Region
Joan A. Vorpahl **57**, 297
- The Structure of Coronal Loops
E. R. Priest **58**, 57
- On the Time Evolution of Force-Free Fields
S. I. Syrovatskii **58**, 89
- Measurement and Analysis of Magnetic Field Variation during a Class 2b Flare
Katsuo Tanaka **58**, 149
- A Trigger Mechanism for the Emerging Flux Model of Solar Flares
T. J. Tur and E. R. Priest **58**, 181
- Determination of Constant α Force-Free Solar Magnetic Fields from Magnetograph Data
N. Seehafer **58**, 215
- Note on the Asymmetry of Bipolar Sunspot Groups
V. A. Krat and V. A. Osherovitch **59**, 43

Vertical Motions in an Intense Magnetic Flux Tube. II: Convective Instability

A. R. Webb and B. Roberts 59, 249

On the Reality of Potential Magnetic Fields in the Solar Corona

G. W. Pneuman, S. F. Hansen, and R. T. Hansen 59, 313

Coronal Magnetic-Field Model with Non-Spherical Source Surface

Michael Schulz, Edward N. Frazier, and Donald J. Boucher, Jr. 60, 83

On the Appearance of Magnetic Flux in the Solar Photosphere

Cornelis Zwaan 60, 213

The Effects of Magnetic Structure on the Conduction Cooling of Flare Loops

Gerard Van Hoven 61, 115

Two-Dimensional Equilibrium of a Neutral Sheet in a Gravitational Field

Wim J. Weber 61, 345

Convective Collapse of Flux Tubes

H. C. Spruit 61, 363

Singular Lines of One-Dimensional Force-Free Magnetic Field

N. A. Bobrova and S. I. Syrovatskii 61, 379

Convective Instability of Thin Flux Tubes

H. C. Spruit and E. G. Zweibel 62, 15

Magnetic Flux of Colinear Bipolar Spot Pairs

P. J. Baum, A. Bratenahl, G. Crockett, and G. Kamin 62, 53

Direct Solution of Laplace's Equation for Coronal Magnetic Fields Using Line-of-Sight Boundary Conditions

W. Riesebieter and F. M. Neubauer 63, 127

Frequency Response of Magnetic Flux Sheaths

P. Venkatakrishnan 63, 135

Comment on Coronal Magnetic Field Models

Kenneth H. Schatten 63, 275

On the Three-Dimensional Structure of the Solar Magnetic Field in Interplanetary Space

Osamu Kaburaki and Yuzuru Yoshii 64, 187

A Description of the Sunspot-Twisted Magnetic Field under 'Similarity' Assumption

V. A. Osherovitch 64, 261

Kink Instability of Solar Coronal Loops as the Cause of Solar Flares

A. W. Hood and E. R. Priest 64, 303

On Magnetostatic Equilibrium in a Stratified Atmosphere

B. C. Low 65, 147

Force-Free Magnetic Arcades Relevant to Two-Ribbon Solar Flares

E. R. Priest and A. M. Milne 65, 315

The Importance of Photospheric Magnetic Field Complexity for Coronal Energy Storage

W. van Tend 66, 21

Magnetic Instability of Coronal Arcades as the Origin of Two-Ribbon Flares

A. W. Hood and E. R. Priest 66, 113

Exact Static Equilibrium of Vertically Oriented Magnetic Flux Tubes. I: The Schlüter-Temesváry Sunspot

B. C. Low 67, 57

Evidence for an X-Type Neutral Sheet Producing Chromospheric Activity

N. Seehafer and J. Staude 67, 121

On the Equilibrium of a Cylindrical Plasma Supported Horizontally by Magnetic Fields in Uniform Gravity

I. Lerche and B. C. Low 67, 229

Flux Linkages of Bipolar Sunspot Groups: A Computer Study

P. J. Baum and A. Bratenahl 67, 245

Magnetohydrodynamic Equilibrium and Stability of Pre-Flare Loops. Constant Pitch Field

S. S. Hasan 67, 267

Energy Balance in Current Sheets: From Petschek to Gravity Driven Reconnection?

C. Mercier and J. Heyvaerts 68, 151

On Line Tying

M. Gibbons and D. S. Spicer 69, 57

Calculation of Force-Free Magnetic Field with Non-Constant α

Takashi Sakurai 69, 343

Alfvén Waves in the Solar Atmosphere. II: Open and Closed Magnetic Flux Tubes

Joseph V. Hollweg **70**, 25

Numerical Simulations of the *K* Corona and of the $\lambda 5303$ Emission Line Corona

P. Poulain **70**, 229

The Eruption of Active Region Filaments and Its Relation to the Triggering of a Solar Flare

M. Kuperus and W. van Tend **71**, 125

Internal Structure of Reconnecting Current Sheets and the Emerging Flux Model for Solar Flares

A. M. Milne and E. R. Priest **73**, 157

On the Presence of Electric Currents in the Solar Atmosphere. I: A Theoretical Framework

M. Hagyard, B. C. Low, and E. Tandberg-Hanssen **73**, 257

Modelling Coronal Magnetic Fields

D. P. Rowse and I. W. Roxburgh **74**, 165

The Effects on the MHD Stability of Field Line Tying to the End Faces of a Cylindrical Magnetic Loop

Chang-Hyuk An **75**, 19

Polar Coronal Plumes

Steven T. Suess **75**, 145

Computation of Inner Coronal Magnetic Fields from Longitudinal Field Components on a Spherical Photosphere

G. Elwert, K. Müller, L. Thür, and P. Balz **75**, 205

Flare Build-Up in Preflare Magnetic Loops and Nonlinear Force-Free Magnetic Fields

Su Qing-Rui **75**, 229

Model for Flare Loops, Fast Motions, and Opening of Magnetic Field in the Corona

S. I. Syrovatskii **76**, 3

Resistive Tearing Mode in Coronal Neutral Sheets

Lutz Janicke **76**, 29

Magnetostatic Atmospheres: A Family of Isothermal Solutions

Ellen G. Zweibel and A. J. Hundhausen **76**, 261

Green's Function Methods for Potential Magnetic Fields

Takashi Sakurai **76**, 301

Compression of Magnetic Field in a Viscous Boundary Layer

E. N. Parker **77**, 3

Magnetic Field Configurations Associated with Polarity Intrusion in a Solar Active Region. I: The Force-Free Fields

B. C. Low **77**, 43

Simulation of the Magnetic Structure of the Inner Heliosphere by Means of a Non-Spherical Source Surface

Randolph H. Levine, Michael Schulz, and E. N. Frazier **77**, 363

A Magnetic Core in the Sun? The Solar Rotator

R. H. Dicke **78**, 3

Magnetic Reconnection and Coronal Transients

U. Anzer and G. W. Pneuman **79**, 129

Open Magnetic Fields and the Solar Cycle. I: Photospheric Sources of Open Magnetic Flux

Randolph H. Levine **79**, 203

Hydromagnetic Stability of Coronal Arcade Structures: The Effects of Photospheric Line Tying

Alak Ray and Gerard Van Hoven **79**, 353

A Comparison of Different Solar Magnetic Field Extrapolation Procedures

N. Seehafer **81**, 69

The Energy of Electric Current Sheets. I: Models with Moving Magnetic Dipoles

Y. Q. Hu and B. C. Low **81**, 107

Potential Models of the Unipolar Sunspot Magnetic Field

V. V. Denisenko, V. A. Kotov, V. A. Romanov, and V. S. Sokolov **81**, 217

Numerical Study of Line-Tied Magnetic Reconnection

T. G. Forbes and E. R. Priest **81**, 303

Vertical Gradients of Sunspot Magnetic Fields

M. J. Hagyard, D. Teuber, E. A. West, E. Tandberg-Hanssen, W. Henze, Jr., J. M. Beckers, M. Bruner, C. L. Hyder, and B. W. Woodgate **84**, 13

The Energy of Electric Current Sheets. II: The Magnetic Free Energy and the Photospheric Magnetic Flux

B. C. Low and Y. Q. Hu **84**, 83

- MHD Equilibrium and Stability Properties of a Bipolar Current Loop
Ming L. Xue and James Chen **84**, 119
- The Theory of Quadrupolar Sunspots and the Active Region of August, 1972
Hai-Shou Yang, Hou-Mei Chang, and J. W. Harvey **84**, 139 *Errata* 92, 391
- A Numerical Experiment Relevant to Line-Tied Reconnection in Two-Ribbon Flares
T. G. Forbes and E. R. Priest **84**, 169
- Magnetic Theories of Solar Flares
E. R. Priest **86**, 33
- Computed Magnetic Field Structure of the Flares Observed by HINOTORI Hard X-Ray Telescope
Takashi Sakurai **86**, 339
- Simple Models for Magnetic Flux Tubes
G. W. Simon, N. O. Weiss, and A. H. Nye **87**, 65
- Magnetic Stability of Coronal Arcades Relevant to Two-Ribbon Flares
A. W. Hood **87**, 279
- Sunspot Models with Twisted Magnetic Field
Vladimir Osherovich and T. Flaa **88**, 109
- Elaboration of the New Magnetohydrostatic Sunspot Theory (Double Return Flux Model)
Vladimir A. Osherovich and J. K. Lawrence **88**, 117
- The Stability of Coronal Loops: Finite-Length and Pressure-Profile Limits
G. Einaudi and G. Van Hoven **88**, 163
- The Formation of Solar Prominences by Magnetic Reconnection and Condensation
G. W. Pneuman **88**, 219
- The Stability of Magnetohydrostatic Atmospheres
A. W. Hood **89**, 235
- Modeling of Energy Buildup for a Flare-Productive Region
S. T. Wu, Y. Q. Hu, K. R. Krall, M. J. Hagyard, and J. B. Smith, Jr. **90**, 117
- Forced Reconnection by Nonlinear Magnetohydrodynamic Waves
J. Sakai, T. Tajima, and F. Brunel **91**, 103
- A Quantitative Study Relating Observed Shear in Photospheric Magnetic Fields to Repeated Flaring
M. J. Hagyard, J. B. Smith, Jr., D. Teuber, and E. A. West **91**, 115
- Magnetohydrostatic Structures in the Solar Atmosphere
J. P. Melville, A. W. Hood, and E. R. Priest **92**, 15
- Magnetic Fields and Thermal Structure of Solar Plasmas
G. Einaudi, G. Torricelli-Ciamponi, and C. Chiuderi **92**, 99
- The Magnetic Non-Equilibrium of Buoyant Flux Tubes in the Solar Corona
P. K. Browning and E. R. Priest **92**, 173
- Extension of the Reconnection Theory of Two-Ribbon Solar Flares
R. A. Kopp and G. Poletto **93**, 351
- Magnetic Flux Tube in a Stratified Atmosphere under the Influence of the Vertical Magnetic Field
Vladimir A. Osherovich **94**, 207
- Computation of Solar Magnetic Fields from Photospheric Observations
L. Hannakam, G. Allen Gary, and D. L. Teuber **94**, 219
- Numerical Simulation of Reconnection in an Emerging Magnetic Flux Region
T. G. Forbes and E. R. Priest **94**, 315
- The 'Melon-Seed' Mechanism and Coronal Transients
G. W. Pneuman **94**, 387
- Hydromagnetic Buoyancy Force in the Solar Atmosphere
Tyan Yeh **95**, 83
- Remarks on the Magnetic Support of Quiescent Prominences
U. Anzer and E. Priest **95**, 263
- Magnetic Field Structures of Hard X-Ray Flares Observed by Hinotori Spacecraft
Takashi Sakurai **95**, 311
- An Example for Solar Flares Caused by Magnetic Field Non-Equilibrium
N. Seehafer **96**, 307
- A New Model for Flux Emergence and the Evolution of Sunspots and the Large-Scale Fields
P. S. McIntosh and P. R. Wilson **97**, 59

Resistive Instabilities in Coronal ConditionsPaolo Batistoni, Giorgio Einaudi, and Claudio Chiuderi **97**, 309**Interplanetary Hydromagnetic Clouds as Flare-Generated Spheromaks**K. G. Ivanov and A. F. Harshiladze **98**, 379**Inhibition of Conductive Heat Flow by Magnetic Constriction in the Corona and Transition Region: Dependence on the Shape of the Constriction**J. F. Dowdy, Jr., R. L. Moore, and S. T. Wu **99**, 79**On Sheared Magnetic Field Structures Containing Neutral Points**W. Zwingmann, K. Schindler, and J. Birn **99**, 133**Some Recent Developments in the Theoretical Dynamics of Magnetic Fields (Invited Review Paper)**B. C. Low **100**, 309**Magnetic Fields, Network (see Magnetic Fields)****Magnetic Fields, Photosphere****Observations of Small-Scale Solar Magnetic Fields**N. R. Sheeley, Jr. **1**, 171**Solar Source of the Interplanetary Sector Structure**John M. Wilcox and Norman F. Ness **1**, 437**Small-Scale Solar Magnetic Fields and 'Invisible Sunspots'**Cornelis Zwaan **1**, 478**Velocity Fields in the Solar Atmosphere**Robert Howard **2**, 3**Flare Positions Relative to Photospheric Magnetic Fields**Sara F. Smith and Harry E. Ramsey **2**, 158**The Intensity, Velocity and Magnetic Structure of a Sunspot Region. I: Observational Technique, Properties of Magnetic Knots**J. M. Beckers and E. H. Schröter **4**, 142**On the Relation between the Photospheric Intensity, Velocity and Magnetic Fields**J. M. Beckers and E. H. Schröter **4**, 165**A New Method of Magnetograph Observation of the Photospheric Brightness, Velocity, and Magnetic Fields**Robert Howard, Andrew S. Tanenbaum, and John M. Wilcox **4**, 286**A Large-Scale Pattern in the Solar Magnetic Field**John M. Wilcox and Robert Howard **5**, 564**Magnetic Knots near a Sunspot**V. M. Grigorjev **6**, 67**A Model of Interplanetary and Coronal Magnetic Fields**Kenneth H. Schatten, John M. Wilcox, and Norman F. Ness **6**, 442**Solar Activity and Recurrences in Magnetic-Field Distribution**V. Bumba and R. Howard **7**, 28**A Comparison of the Photospheric and Interplanetary Magnetic Fields during the Flight of Mariner IV**John B. Winters, Jae R. Ballif, and Douglas E. Jones **7**, 478**The Emission of Solar X-Rays in the 0.5-3 Å Wavelength Range and Its Relation to the Magnetic Configuration of Active Centers**G. Chambe **8**, 369**The Evolution of the Photospheric Network**N. R. Sheeley, Jr. **9**, 347**On the Spectrum of Granular and Intergranular Regions**R. Howard and A. Bhatnagar **10**, 245**Magnetograph Measurements with Temperature-Sensitive Lines**J. Harvey and W. Livingston **10**, 283**Observational Evidence for Quantization in Photospheric Magnetic Flux**W. Livingston and J. Harvey **10**, 294**Simultaneous Measurements of Magnetic Fields and Brightness Fields Using a 4-Image Spectroheliograph**N. R. Sheeley, Jr. and O. Engvold **12**, 69**The Polar Magnetic Fields of July and August 1968**Jan Olof Stenflo **13**, 42

- On the Ratio between the Mechanical Fluxes in- and outside the Solar Chromospheric Mottles
C. de Jager and C. De Loore **13**, 126
- Differential Rotation of the Photospheric Magnetic Field
John M. Wilcox and Robert Howard **13**, 251
- Vertical Velocities and Horizontal Wave Propagation in the Solar Photosphere
Steven Musman and David M. Rust **13**, 261
- Concerning the Formation of Giant Regular Structures in the Solar Atmosphere
V. Bumba **14**, 80
- Multi-Channel Magnetograph Observations. II: Supergranulation
Edward N. Frazier **14**, 89
- Photospheric Magnetic Field Rotation: Rigid and Differential
John M. Wilcox, Kenneth H. Schatten, Andrew S. Tanenbaum, and Robert Howard **14**, 255
- Hale's Attempts to Determine the Sun's General Magnetic Field
Jan Olof Stenflo **14**, 263
- Comparison of the Mean Photospheric Magnetic Field and the Interplanetary Magnetic Field
A. Severny, J. M. Wilcox, P. H. Scherrer, and D. S. Colburn **15**, 3
- Unified Theory of the Interplanetary Magnetic Field
Ronald L. Ronsenberg **15**, 72
- A Comparison of Simultaneous Measurements of the Polar Magnetic Fields Made at the Crimea and Mount Wilson
V. A. Kotov and J. O. Stenflo **15**, 265
- Preliminary Observations of Coronal Magnetic Fields before and after Solar Proton Events
Jesusa Valdez and Martin D. Altschuler **15**, 446
- A 'Source Surface Theory' Corollary: The Mean Solar Field-Interplanetary Field Correlation
K. H. Schatten **15**, 499
- Using CN λ 3883 Spectroheliograms to Map Weak Photospheric Magnetic Fields
N. R. Sheeley, Jr. **20**, 19
- Multi-Channel Magnetograph Observations. III: Faculae
Edward N. Frazier **21**, 42
- Observation on the Detailed Correspondence of Magnetic and $H\alpha$ Features
Stephen A. Schoolman **21**, 57
- The Coronal and Interplanetary Magnetic Fields at the Time of the Solar Eclipse of 7 March, 1970
J. O. Stenflo **21**, 263
- Correlation of Photospheric Magnetic Field Strength with Coronal Brightness on 7 March, 1970
G. C. J. Suffolk and S. M. Smith **21**, 481
- On the Filamentary Nature of Solar Magnetic Fields
Robert Howard and J. O. Stenflo **22**, 402
- The Mean Photospheric Magnetic Field from Solar Magnetograms: Comparisons with the Interplanetary Magnetic Field
Philip H. Scherrer, John M. Wilcox, and Robert Howard **22**, 418
- Evolution of Solar Magnetic Fields over an 11-Year Period
J. O. Stenflo **23**, 307
- The Relations between Chromospheric Features and Photospheric Magnetic Fields
Edward N. Frazier **24**, 98
- Magnetic Fields and Helium-D₃ Spectroheliograms
G. A. Chapman **24**, 288
- Polar Magnetic Fields of the Sun: 1960-1971
Robert Howard **25**, 5
- Solar Activity and the Variations of the Geomagnetic K_p-Index. I: Photospheric Activity
John T. Mariska and Ludwig Oster **26**, 241
- Large-Scale Photospheric Magnetic Field: The Diffusion of Active Region Fields
Kenneth H. Schatten, Robert B. Leighton, Robert Howard, and John M. Wilcox **26**, 283
- On the Small-Scale Structure of Solar Magnetic Fields
E. N. Frazier and J. O. Stenflo **27**, 330
- Comments on the Zirin-Frazier Controversy
Chung-Chieh Cheng, K. J. H. Phillips, and Alistair M. Wilson **29**, 383

Short-Periodic Oscillations of the Magnetic Field of the Sun as a Star

B. A. Ioshpa, V. N. Obridko, and B. D. Shelting **29**, 385

Magnetic-Field Structure of the Photospheric Network

J. O. Stenflo **32**, 41

A Comparison of EUV Spectroheliograms and Photospheric Magnetograms

Joseph B. Gurman, George L. Withbroe, and John W. Harvey **34**, 105

Temperature Effects on Measurements of Photospheric Magnetic Fields

B. Caccin, R. Falciani, and A. Donati-Falchi **35**, 31

Magnetic Fine Structure and the Solar Magnetic Monopole

C. Sawyer **35**, 37

Short Period Variation of the Photospheric Magnetic Field

I. K. Csada **35**, 325

A Search for the Footpoints of Solar Magnetic Fields

G. W. Simon and J. B. Zirker **35**, 331

The Relationship between the Slowly Varying Component of Solar Radio Emission and Large Scale Photospheric Magnetic Field Patterns

P. H. Scherrer and M. El-Raey **35**, 361

Differential Rotation and Sector Structure of Solar Magnetic Fields

J. O. Stenflo **36**, 495

On the Solar Magnetic 'Monopole'

M. Stix and E. Wiehr **37**, 493

Studies of Solar Magnetic Fields. II: The Magnetic Fluxes

Robert Howard **38**, 59

Studies of Solar Magnetic Fields. I: The Average Field Strengths

Robert Howard **38**, 283

Solar Cycle Variation of Large-Scale Coronal Structures

Ester Antonucci and Thomas L. Duvall **38**, 439

The Large-Scale Solar Magnetic Field

Martin D. Altschuler, Dorothy E. Trotter, Gordon Newkirk, Jr., and Robert Howard **39**, 3

Studies of Solar Magnetic Fields. III: The East-West Orientation of Field Lines

Robert Howard **39**, 275

Magnetic Pukas and the Lifetime of the Supergranulation

W. C. Livingston and F. Q. Orrall **39**, 301

XUV Observations of Coronal Magnetic Fields

N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. Scherrer, and R. Tousey **40**, 103

Tabulation of the Harmonic Coefficients of the Solar Magnetic Fields

Martin D. Altschuler, Dorothy E. Trotter, Gordon Newkirk, Jr., and Robert Howard **41**, 225

The Structure and Evolution of Coronal Holes

A. F. Timothy, A. S. Krieger, and G. S. Vaiana **42**, 135

Evidence for Non-Radial Fields in the Sun's Photosphere and a Possible Explanation of the Polar Magnetic Signal

Tom Pope and Jim Mosher **44**, 3

The Sun's Magnetic Sector Structure

Leif Svalgaard, John M. Wilcox, Philip H. Scherrer, and Robert Howard **45**, 83

A Study of Supergranulation Using a Diode Array Magnetograph

Simon P. Worden and George W. Simon **46**, 73

Coronal Holes as Sources of Solar Wind

J. T. Nolte, A. S. Krieger, A. F. Timothy, R. E. Gold, E. C. Roelof, G. Vaiana, A. J. Lazarus, J. D. Sullivan, and P. S. McIntosh **46**, 303 *Erratum/Replacement Figure: Fig. 2 - 53, 547*

Large Scale Magnetic Dipole and Multipole Progressive Waves in the Photosphere

I. K. Csada **47**, 555

Studies of Solar Magnetic Fields. IV: The Effects of Angular Resolution

Robert Howard **47**, 575

Solar Cycle General Magnetic Fields of 1959-1974 and Dynamical Structure of the Convection Zone

Hirokazu Yoshimura **47**, 581

Differential Rotation of Photospheric Magnetic Fields Associated with Coronal Holes

W. M. Adams **47**, 601

- The Hale Solar Sector Boundary
Leif Svalgaard and John M. Wilcox 49, 177
- Magnetic Field of the Solar Wind
M. I. Pudovkin and A. D. Chertkov 50, 213
- A Possible Example of Giant Convective Cells Delineated by Magnetic Fields
W. J. Wagner and L. B. Gilliam 50, 265
- High Resolution Mapping of the Magnetic Field of the Solar Corona
Martin D. Altschuler, Randolph H. Levine, Michael Stix, and John Harvey 51, 345
- Studies of Solar Magnetic Fields. V: The True Average Field Strengths near the Poles
Robert Howard 52, 243
- Evolution of Photospheric Magnetic Field Patterns during Skylab
Randolph H. Levine 54, 327
- Comparison of H α Synoptic Charts with the Large-Scale Solar Magnetic Field as Observed at Stanford
Thomas L. Duvall, Jr., John M. Wilcox, Leif Svalgaard, Philip H. Scherrer, and Patrick S. McIntosh 55, 63
- On the Nature of Photospheric Magnetic Fields beneath Large Coronal Holes
S. Frankenthal and A. S. Krieger 55, 83
- Temporal Evolution of the Equatorial K-Corona
R. M. MacQueen and A. I. Poland 55, 143
- Magnetic Field Rotation at High Solar Latitudes
Robert Howard 59, 243
- On the Appearance of Magnetic Flux in the Solar Photosphere
Cornelis Zwaan 60, 213
- Average Photospheric Poloidal and Toroidal Magnetic Field Components near Solar Minimum
Thomas L. Duvall, Jr., Philip H. Scherrer, Leif Svalgaard, and John M. Wilcox 61, 233
- Spatial Distribution of Large-Scale Solar Magnetic Fields and Their Relation to the Interplanetary Magnetic Field
Randolph H. Levine 62, 277
- Structure and Evolution of Magnetic Network Features
N. Kömle 64, 213
- Comment on 'Average Photospheric Poloidal and Toroidal Magnetic Field Components near Solar Minimum'
by Duvall *et al.*
P. Foukal and T. L. Duvall, Jr. 67, 9
- An Exploratory Two-Dimensional Study of the Coarse Structure of Network Magnetic Fields
R. G. Giovanelli 68, 49
- The Evolution of a Coronal Streamer and the Photospheric Magnetic Field
A. I. Poland and R. M. MacQueen 71, 361
- Surface Magnetic Fields during the Solar Activity Cycle
Robert Howard and Barry J. LaBonte 74, 131
- Torsional Waves on the Sun and the Activity Cycle
B. J. LaBonte and R. Howard 75, 161
- Time Variability and Structure of Quiet Sun Sources at 6 cm Wavelength
F. T. Erskine and M. R. Kundu 76, 221
- On the Relative Roles of Unipolar and Mixed-Polarity Fields
Ronald G. Giovanelli 77, 27
- Simulation of the Magnetic Structure of the Inner Heliosphere by Means of a Non-Spherical Source Surface
Randolph H. Levine, Michael Schulz, and E. N. Frazier 77, 363
- Magnetic Measurements of Coronal Holes during 1975-1980
K. L. Harvey, N. R. Sheeley, Jr., and J. W. Harvey 79, 149
- Magnetograph Response to Canopy-Type Fields
Harrison P. Jones and Ronald G. Giovanelli 79, 247
- The Magnetic Flux in the Quiet Sun Network
Barry J. LaBonte and Robert Howard 80, 15
- The Hanle Effect and the Diagnostics of Turbulent Magnetic Fields in the Solar Atmosphere
J. O. Stenflo 80, 209
- Ca II K_{2v} Spectral Features and Their Relation to Small-Scale Photospheric Magnetic Fields
K. R. Sivaraman and W. C. Livingston 80, 227

On Possible Correlations in the Photospheric Magnetic Field

Steven G. Wallenhorst **83**, 191

Poleward Migration of the Magnetic Neutral Line and the Reversal of the Polar Fields on the Sun. I: Period 1945-1981

V. I. Makarov, M. P. Fatianov, and K. R. Sivaraman **85**, 215

Poleward Migration of the Magnetic Neutral Line and the Reversal of the Polar Fields on the Sun. II: Period 1904-1940

V. I. Makarov and K. R. Sivaraman **85**, 227

Magnetic Canopies in Unipolar Regions

Harrison P. Jones and Ronald G. Giovanelli **87**, 37

Dependence of the Properties of Magnetic Fluxtubes on Area Factor or Amount of Flux

J. O. Stenflo and J. W. Harvey **95**, 99

Variations of the Asymmetry of Disk-Integrated Solar Line Profiles

David H. Bruning and Barry LaBonte **97**, 1

Simulations of the Mean Solar Magnetic Field during Solar Cycle 21

N. R. Sheeley, Jr., C. R. DeVore, and J. P. Boris **98**, 219

The Smallest Observable Elements of Magnetic Flux

Jingxiu Wang, Harold Zirin, and Zhongxian Shi **98**, 241

Magnetic Fields, Polar (*see Magnetic Fields*)
Magnetic Fields, Solar Wind (*see Magnetic Fields, Interplanetary*)
Magnetic Fields, Stellar (*see Stellar Physics*)
Magnetic Fields, Transport (*see Magnetic Fields*)
Magneto-Optical Effects (*see Spectral Line, Formation In Magnetic Field*)
Magnetohydrodynamics
Reconnection of Magnetic Field of Active Regions by the Interaction of Their Extensions in Interplanetary Space

S. Gopasyuk and L. Křivský **1**, 145 *Corrigendum 1, 504*
Electrical Conductivity Gradients in Sunspots

Martin D. Altschuler **1**, 377

Application of the Hypersonic Analog to the Standing Shock of Mars

Murray Dryer and Gary R. Heckman **2**, 112

Magnetic-Field Accumulation in Supergranules

Alfred Clark, Jr. and H. Kevin Johnson **2**, 433

The Structure of a Sunspot. II: The Magnetohydrodynamics of the Penumbra

P. R. Wilson **3**, 454

Concerning the Origin of Evershed Motion in Sunspots

Martin D. Altschuler, Yoshinari Nakagawa, and Carl G. Lilliequist **3**, 466 *Addendum 4, 264*
Convective Instability and Overstability in the Sunspot Umbra

Mamoru Saitō and Shoji Kato **3**, 531

Propagation of Hydromagnetic Disturbances in the Solar Corona and Moreton's Wave Phenomenon

Yutaka Uchida **4**, 30

Magneto-Gravity Waves and the Heating of the Solar Corona

Alden McLellan IV and F. Winterberg **4**, 401

Reduced Shock Relations in Magnetohydrodynamics

T. D. Wilkerson **6**, 44

The Effect of Finite Electrical Conductivity on the Angular-Momentum Loss of the Sun Due to the Solar Wind

E. J. Weber **7**, 470

Stability Analysis of the Kippenhahn-Schlüter Model of Solar Filaments

U. Anzer **8**, 37

General Magnetic Field and Rotation of the Outer Layers of the Sun

F. Unz and K. Walter **8**, 310

A Rossby-Wave Dynamo for the Sun, I

Peter A. Gilman **8**, 316

A Rossby-Wave Dynamo for the Sun, II

Peter A. Gilman **9**, 3

- Periodic Structures in Quiescent Prominences
Y. Nakagawa and J. McKim Malville **9**, 102
- The Rotation of the Solar Atmosphere
E. J. Weber **9**, 150
- A Magnetohydrodynamic Approach for Interpreting Solar Polarization Bursts at 7 GHz
O. T. Matsuura **9**, 173
- Tangential Discontinuities in the Solar Wind
Leonard F. Burlaga and Norman F. Ness **9**, 467
- Plasma Wave Propagation in the Neighborhood of a Magnetic Neutral Point
Richard L. Harkness, Jr. **10**, 154
- A Model of the Magnetized Solar Wind
I. H. Urch **10**, 219
- On the Energy Dissipation of Fast Hydromagnetic Shock Waves in the Solar Chromosphere
R. Mäcke **10**, 348
- Thermal and Dynamical Stability of Prominences
Y. Nakagawa **12**, 419
- Coronal Streamers. III: Energy Transport in Streamer and Interstreamer Regions
G. W. Pneuman and Roger A. Kopp **13**, 176
- The Torque on the Interplanetary Plasma Due to Its Anisotropy
E. J. Weber **13**, 240
- Convective Instability of a Model Chromosphere
Richard J. Defouw **14**, 42
- Excitation of Non-Spherical Waves in Solar Atmosphere in the Presence of Toroidal Magnetic Field
Shoji Kato and Y. Nakagawa **14**, 138
- Stability of Tangential Discontinuities
T. G. Northrop and T. J. Birmingham **14**, 226
- Two-Dimensional Guiding-Center Model of the Solar Wind-Moon Interaction
Y. C. Whang **14**, 489
- A Magnetostatic Sunspot Model with 'Twisted' Field
Hong Sik Yun **16**, 398
- The Effect of Alfvén Waves on MHD Fast Shocks
M. Scholer and J. W. Belcher **16**, 472
- Gas-Magnetic Field Interactions in the Solar Corona
G. W. Pneuman and Roger A. Kopp **18**, 258
- Complexes of Activity of the Solar Cycle and Very Large Scale Convection
Hirokazu Yoshimura **18**, 417
- The Rotation of Magnetic Loop Systems in the Solar Atmosphere
G. W. Pneuman **19**, 16
- The Propagation of Solar Cosmic-Ray Bursts
C. K. Ng and L. J. Glesson **20**, 166
- The Dynamics of a Toroidal Magnetic Ring
Carl G. Lilliequist, Martin D. Altschuler, and Yoshinari Nakagawa **20**, 348
- Suppression of the Kink Instability for Magnetic Flux Ropes in the Chromosphere
M. A. Raadu **22**, 425
- Alfvén Waves in Umbral Flux Tubes
P. R. Wilson **22**, 434
- A Physical Mechanism for the Production of Solar Flares
Hari K. Sen and Marvin L. White **23**, 146
- Critical Point Regularity Conditions and Asymptotic Solutions to the Time Stationary, Linearized, Inhomogeneous Solar Wind Flow Problem
G. L. Siscoe and R. L. Carovillano **23**, 211
- On Neutral Sheets in the Solar Wind
G. W. Pneuman **23**, 223
- A Two-Fluid Solar Wind Model with Anisotropic Proton Temperature
E. Leer and W. I. Axford **23**, 238
- Tunnel-Effect and Propagation of 5-min Oscillations in the Solar Atmosphere
Y. D. Zhugzhda **25**, 329

Velocity Oscillations in Solar Plage Regions

Cheng-Jen Chen and Paul S. Lykoudis 25, 380

The Cooling of a Sunspot. I: A Carnot Cycle and the Hydromagnetic Interactions

P. R. Wilson 27, 354

Thermal Instability of Coronal Neutral Sheets and the Formation of Quiescent Prominences

M. A. Raadu and M. Kuperus 28, 77

The Solar Wind and the Temperature-Density Structure of the Solar Corona

G. W. Pneuman 28, 247

Flare-Produced Coronal MHD-Fast-Mode Wavefronts and Moreton's Wave Phenomenon

Yutaka Uchida, Martin D. Altschuler, and Gordon Newkirk, Jr. 28, 495

Restrictions on Radial Magnetic Field and Flow Solutions for the Solar Wind

M. S. Gussenhoven and R. L. Carovillano 29, 233

The Five-Minute Period Oscillation in Magnetically Active Regions

A. G. Michalitsanos 30, 47

Possible Mechanism of Surge Formation in the Solar Atmosphere

Yu. V. Platov, B. V. Somov, and S. I. Syrovatskii 30, 139

On the Generation of Umbral Flashes and Running Penumbral Waves

R. L. Moore 30, 403

Why Syrovatskii's Mechanism of Dynamic Dissipation of Magnetic Fields Does Not Work

Ulrich Anzer 30, 459

The Nonlinear Acceleration of a Magnetic Disturbance in the Solar Corona

Martin D. Altschuler, Dean F. Smith, Paul N. Swartrauber, and Eric R. Priest 32, 153

Numerical Studies of Azimuthal Modulations of the Solar Wind with Magnetic Fields

Y. Nakagawa and R. E. Welck 32, 257

The Effect of Partial Ionization of a Gas on the Electrical Conductivity, with Reference to Sunspot Umbrae

P. A. Gurbutt 33, 403

A Simple Magnetostatic Model of Sunspots

F. H. Busse 33, 413

The Influence of Non-Uniform Solar Wind Expansion on the Angular Momentum Loss from the Sun

E. R. Priest and G. W. Pneuman 34, 231

The Cooling of a Sunspot. IV: Reply to D. J. Mullan

P. R. Wilson 35, 111

The Formation of Solar Quiescent Prominences by Condensation

E. Hildner 35, 123

On the Structure and the Motion of a Spicule

W. Unno, E. Ribes, and I. Appenzeller 35, 287

On the Nature of Plasma Arcs in Solar Active Regions

Ryszard Gajewski 35, 385

Excess Heating of Corona and Chromosphere Above Magnetic Regions by Non-Linear Alfvén Waves

Yutaka Uchida and Osamu Kaburaki 35, 451

The Nature of the Sunspot Phenomenon. II: Internal Overstable Modes

E. N. Parker 37, 127

Resonant Scattering of Particles and Second Phase Acceleration in the Solar Corona

D. B. Melrose 37, 353

Coronal Electric Currents Produced by Photospheric Motions

J. Heyvaerts 38, 419

A Two-Component Thermal Model of X-Ray Burst Sources

J. R. H. Herring 39, 175

Equilibrium and Stability of Force-Free Magnetic Field

M. M. Molodensky 39, 393

The Nature of the Sunspot Phenomenon. IV: The Intrinsic Instability of the Magnetic Configuration

E. N. Parker 40, 291

Solar-Interplanetary Modeling: 3-D Solar Wind Solutions in Prescribed Non-Radial Magnetic Field Geometries

B. R. Durney and G. W. Pneuman 40, 461

Solar Wind: The Quasi-Radial Approximation and Its Limitations

S. T. Suess and S. F. Nerney 40, 487

On Coronal Streamers with T-Type Neutral Points

B. R. Durney 41, 233

On the Turbulent Decay of Strong Magnetic Fields and the Development of Sunspot Areas

F. Krause and G. Rüdiger 42, 107

Preflare Current Sheets in the Solar Atmosphere

E. R. Priest and M. A. Raadu 43, 177

Meridional Flow in the Solar Wind in the Presence of Latitudinally Dependent Boundary Conditions

S. F. Nerney and S. T. Suess 45, 255

On Build-Up of Magnetic Energy in the Solar Atmosphere

Y. Nakagawa, R. S. Steinolfson, and S. T. Wu 47, 193

Thermal Evolution of Current Sheets and Flash Phase of Solar Flares

J. Heyvaerts and E. R. Priest 47, 223

Phase Relation between the Poloidal and Toroidal Solar-Cycle General Magnetic Fields and Location of the Origin of the Surface Magnetic Fields

Hirokazu Yoshimura 50, 3

Magnetic Reconnection in the Corona and the Loop Prominence Phenomenon

R. A. Kopp and G. W. Pneuman 50, 85

Skinning Process Stability of the Magnetic Field in the Solar Active Regions

V. S. Sokolov, S. S. Katsnelson, A. G. Kosovichev, and V. S. Slavin 51, 293

Heating and Reconnection of the Emerging Magnetic Flux-Tubes and the Role of the Interchange Instability

Yutaka Uchida and Takashi Sakurai 51, 413

On the Occurrence of Critical Levels in Solar Magnetohydrodynamics

J. A. Adam 52, 293

On a Possible Mechanism of Solar Faculae Heating

S. I. Vainstein, G. V. Kuklin, and V. P. Maksimov 53, 15

Some Aspects of Coronal Streamer Dynamics

Wim J. Weber 53, 59

Kinematic Model of Loop Prominences Formation

L. N. Ivanov and Yu. V. Platov 54, 35

The Structure of Coronal Magnetic Loops. I: Equilibrium Theory

Claudio Chiuderi, Riccardo Giachetti, and Gerard Van Hoven 54, 107

Transmission of Acoustic Wave Energy across a Magnetic Flux Sheath

P. Venkatakrishnan and M. H. Gokhale 54, 371

A Sheet-Current Approach to Coronal-Interplanetary Modeling

Tyan Yeh and G. W. Pneuman 54, 419

On the Nature of Photospheric Magnetic Fields beneath Large Coronal Holes

S. Frankenthal and A. S. Krieger 55, 83

Subsonic Flows in the Coronal-Interplanetary Regions of Closed Field Lines

Tyan Yeh 55, 241

On the Difference in Darkness between Sunspots

P. Maltby 55, 335

The Structure of Coronal Magnetic Loops. II: MHD Stability Theory

Riccardo Giachetti, Gerard Van Hoven, and Claudio Chiuderi 55, 371

Vertical Motions in an Intense Magnetic Flux Tube

B. Roberts and A. R. Webb 56, 5

Alfvén Waves in the Solar Atmosphere

J. V. Hollweg 56, 305

Nonlinear Stage of Instability Due to Local Joule-Overheating in the Solar Active Regions

V. S. Sokolov and A. G. Kosovichev 57, 73

A Theory of the Onset of Solar Eruptive Processes

J. Birn, H. Goldstein, and K. Schindler 57, 81

The Structure of Coronal Loops

E. R. Priest 58, 57

On the Time Evolution of Force-Free Fields

S. I. Syrovatskii 58, 89

Pulsations of Type IV Solar Radio Emission: The Bounce-Resonance Effects

B. I. Meerson, P. V. Sasorov, and A. V. Stepanov 58, 165

- Coronal Magnetic-Field Model with Non-Spherical Source Surface
Michael Schulz, Edward N. Frazier, and Donald J. Boucher, Jr. **60**, 83
- Spicules: The Resonant Response to Granular Buffeting?
B. Roberts **61**, 23
- Two-Dimensional Equilibrium of a Neutral Sheet in a Gravitational Field
Wim J. Weber **61**, 345
- Singular Lines of One-Dimensional Force-Free Magnetic Field
N. A. Bobrova and S. I. Syrovatskii **61**, 379
- Instability by Magnetic Buoyancy
D. J. Acheson **62**, 23
- A New Resonance in the Solar Atmosphere. I: Theory
Joseph V. Hollweg **62**, 227
- Waves in the Sunspot Umbra
H. M. Antia and S. M. Chitre **63**, 67
- Vertical Motions in an Intense Magnetic Flux Tube. III: On the Slender Flux Tube Approximation
B. Roberts and A. R. Webb **64**, 77
- Kink Instability of Solar Coronal Loops as the Cause of Solar Flares
A. W. Hood and E. R. Priest **64**, 303
- On Magnetostatic Equilibrium in a Stratified Atmosphere
B. C. Low **65**, 147
- Eruptive Prominences and Coronal Transients
G. W. Pneuman **65**, 369
- Magnetic Instability of Coronal Arcades as the Origin of Two-Ribbon Flares
A. W. Hood and E. R. Priest **66**, 113
- Cylindrical Prominences and the Magnetic Influence of the Photospheric Boundary
I. Lerche and B. C. Low **66**, 285
- A Low β Coronal Loop Model. I: Kink Instabilities in the $\beta = 0$ Limit
R. M. J. Sillen and A. Kattenberg **67**, 47 *Errata* 79, 401
- Exact Static Equilibrium of Vertically Oriented Magnetic Flux Tubes. I: The Schlüter-Temesváry Sunspot
B. C. Low **67**, 57
- On the Equilibrium of a Cylindrical Plasma Supported Horizontally by Magnetic Fields in Uniform Gravity
I. Lerche and B. C. Low **67**, 229
- Magnetohydrodynamic Equilibrium and Stability of Pre-Flare Loops. Constant Pitch Field
S. S. Hasan **67**, 267
- Hydromagnetic Planetary Waves in Vertically Sheared Zonal Flow and Transverse Magnetic Field
O. M. El Mekki **68**, 3
- Vertical Motions in an Intense Magnetic Flux Tube. IV: Radiative Relaxation in a Uniform Medium
A. R. Webb and B. Roberts **68**, 71
- Vertical Motions in an Intense Magnetic Flux Tube. V: Radiative Relaxation in a Stratified Medium
A. R. Webb and B. Roberts **68**, 87
- Energy Balance in Current Sheets: From Petschek to Gravity Driven Reconnection?
C. Mercier and J. Heyvaerts **68**, 151
- Wave Propagation in a Magnetically Structured Atmosphere. I: Surface Waves at a Magnetic Interface
B. Roberts **69**, 27
- Wave Propagation in a Magnetically Structured Atmosphere. II: Waves in a Magnetic Slab
B. Roberts **69**, 39
- A Variational Approach to the Question of Temporal Stability of Equilibrium Models of Solar Prominences. I: The Formal Theory
I. Lerche and B. C. Low **69**, 327
- Alfvén Waves in the Solar Atmosphere. II: Open and Closed Magnetic Flux Tubes
Joseph V. Hollweg **70**, 25
- Characteristics of Damping of the Pulses in the Sun
G. C. Das **71**, 215
- A Time Dependent Model for Spicule Flow
S. S. Hasan and P. Venkatakrishnan **73**, 45
- Current Confinement in Solar Coronal Loops
Claudio Chiuderi and Giorgio Einaudi **73**, 89

- Internal Structure of Reconnecting Current Sheets and the Emerging Flux Model for Solar Flares
A. M. Milne and E. R. Priest 73, 157
- The Effects on the MHD Stability of Field Line Tying to the End Faces of a Cylindrical Magnetic Loop
Chang-Hyuk An 75, 19
- Comment on the Paper 'A New Resonance in the Solar Atmosphere' by Joseph V. Hollweg
P. Venkatakrishnan and S. S. Hasan 75, 79
- Coupling Equations for a Flow-Wave Field Used to Faculae Heating
Li Xiaoqing and Song Mutaó 75, 83
- The Vertical Filamentary Structures of Quiescent Prominences
B. C. Low 75, 119
- Thermal Trigger for Solar Flares and Coronal Loops Formation
B. V. Somov and S. I. Syrovatskii 75, 237
- Internal Atmospheric Hydromagnetic Planetary-Gravity Waves in Zonal Wind-Magnetic Shears
O. M. El Mekki 75, 351
- Resistive Tearing Mode in Coronal Neutral Sheets
Lutz Janicke 76, 29
- Magnetostatic Atmospheres: A Family of Isothermal Solutions
Ellen G. Zweibel and A. J. Hundhausen 76, 261
- Compression of Magnetic Field in a Viscous Boundary Layer
E. N. Parker 77, 3
- A New Magneto-Hydrostatic Theory of Sunspots
V. A. Osherovich 77, 63
- A Magnetohydrodynamic Theory of Coronal Loop Transients
Tyan Yeh 78, 287
- Hydromagnetic Stability of Coronal Arcade Structures: The Effects of Photospheric Line Tying
Alak Ray and Gerard Van Hoven 79, 353
- On Interplanetary Electric and Magnetic Fields
I. I. Alexeev, A. P. Kropotkin, and I. S. Veselovsky 79, 385
- Numerical Study of Line-Tied Magnetic Reconnection
T. G. Forbes and E. R. Priest 81, 303
- Self-Consistent Magnetohydrodynamic Coronal Hole Flows
Barry J. Robertson 83, 63
- Non-Axisymmetric Magnetostatic Equilibrium. I: A Perturbation Theory
W. R. Hu, Y. Q. Hu, and B. C. Low 83, 195
- The Energy of Electric Current Sheets. II: The Magnetic Free Energy and the Photospheric Magnetic Flux
B. C. Low and Y. Q. Hu 84, 83
- Modulational Instability of Fast Magnetosonic Waves in a Solar Plasma
Jun-Ichi Sakai 84, 109
- A Dynamo Theory of Solar Flares
J. R. Kan, S.-I. Akasofu, and L. C. Lee 84, 153
- Stability of Two-Dimensional Pre-Flare Structures
K. Schindler, J. Birn, and L. Janicke 87, 103
- Magnetic Stability of Coronal Arcades Relevant to Two-Ribbon Flares
A. W. Hood 87, 279
- Magnetic Equilibrium in Coronal Arcades
J. P. Melville, A. W. Hood, and E. R. Priest 87, 301
- Coronal Heating and Photospheric Boundary Conditions
D. S. Spicer 88, 43
- Elaboration of the New Magnetohydrostatic Sunspot Theory (Double Return Flux Model)
Vladimir A. Osherovich and J. K. Lawrence 88, 117
- The Stability of Coronal Loops: Finite-Length and Pressure-Profile Limits
G. Einaudi and G. Van Hoven 88, 163
- Alfvénic Resonant Cavities in the Solar Atmosphere: Simple Aspects
Joseph V. Hollweg 91, 269
- A Heating Model for the Transition Zone and Inner Corona
Li Xiao Qing, Zhenda Zhang, and Zhang Youyi 91, 289

- The Concentration of the Large-Scale Solar Magnetic Field by a Meridional Surface Flow
C. R. DeVore, N. R. Sheeley, Jr., and J. P. Boris **92**, 1
- Magnetohydrostatic Structures in the Solar Atmosphere
J. P. Melville, A. W. Hood, and E. R. Priest **92**, 15
- Chromospheric and Coronal Alfvénic Oscillations in Non-Vertical Magnetic Fields
Steven J. Schwartz, Paul S. Cally, and Nicole Bel **92**, 81
- On the Absence of Critical Levels in the Solar Atmosphere
Steven J. Schwartz and Nicole Bel **92**, 133
- The Magnetic Non-Equilibrium of Buoyant Flux Tubes in the Solar Corona
P. K. Browning and E. R. Priest **92**, 173
- Dynamics of Hydromagnetic Clouds from Powerful Solar Flares
K. G. Ivanov and A. F. Harshiladze **92**, 351
- Magnetic Flux Tube in a Stratified Atmosphere under the Influence of the Vertical Magnetic Field
Vladimir A. Osherovich **94**, 207
- Evolution of Rising Helical Prominences in a Nonuniform Atmosphere
G. W. Pneuman **94**, 299
- Numerical Simulation of Reconnection in an Emerging Magnetic Flux Region
T. G. Forbes and E. R. Priest **94**, 315
- The 'Melon-Seed' Mechanism and Coronal Transients
G. W. Pneuman **94**, 387
- Long Nonlinear Waves in a Compressible Magnetically Structured Atmosphere. I: Slow Sausage Waves in a Magnetic Slab
E. G. Merzljakov and M. S. Ruderman **95**, 51
- Hydromagnetic Buoyancy Force in the Solar Atmosphere
Tyan Yeh **95**, 83
- Radiative and Reconnection Instabilities: Compressible and Viscous Effects
T. Tachi, R. S. Steinolfson, and G. Van Hoven **95**, 119
- Statistical Mechanics of Velocity and Magnetic Fields in Solar Active Regions
V. Krishan **95**, 269
- Over-Reflection of Hydromagnetic Planetary-Gravity Waves at the Solar Helmet Streamers and Magnetic Sectors
O. M. El Mekki **96**, 397
- Two-Dimensional Pressure Structure of a Coronal Loop
V. Krishan **97**, 183
- The Magnetic and Thermodynamical Structure of a Coronal Hole
Vladimir A. Osherovich, Erast B. Gliner, Israel Tzur, and Michael L. Kuhn **97**, 251
- The Physics of Thermal Instability in Two Dimensions
L. Sparks and G. Van Hoven **97**, 283
- On the Linear Transformation and Resonant Absorption of Alfvén p -Modes in Sunspots
V. I. Zhukov **98**, 39
- Perturbations of a Twisted Solar Coronal Loop: The Relation between Surface Waves and Instabilities
N. F. Cramer and I. J. Donnelly **99**, 119
- On Sheared Magnetic Field Structures Containing Neutral Points
W. Zwingmann, K. Schindler, and J. Birn **99**, 133
- Some Recent Developments in the Theoretical Dynamics of Magnetic Fields (*Invited Review Paper*)
B. C. Low **100**, 309

Magnetosphere

- Application of the Hypersonic Analog to the Standing Shock of Mars
Murray Dryer and Gary R. Heckman **2**, 112
- An Instrument to Measure Anisotropies of Cosmic Ray Electrons and Protons for the Explorer 34 Satellite
W. C. Bartley, K. G. McCracken, U. R. Rao, J. R. Harries, R. A. R. Palmeira, and F. R. Allum **17**, 218
- Energy Build-Up and Release Mechanisms in Solar Wind and Auroral Flares
Tatsuzo Obayashi **40**, 217
- Flare Build-Up Study, Proceedings of the Study Workshop, held at Falmouth, Cape Cod, Mass., U.S.A., 8-11 September 1975, *Table of Contents*
47, 5

- Flare Build-Up Study, Proceedings of the Study Workshop, held at Falmouth, Cape Cod, Mass., U.S.A., 8-11 September 1975, *Preface*
Zdeněk Švestka 47, 9
- The Aims of the Flare Build-Up Study (*Introduction*)
L. D. de Feiter 47, 15
- Similarities and Differences between Magnetospheric Substorms and Solar Flares (*Invited Paper*)
K. Schindler 47, 91
- Observations in the Earth's Magnetotail Relating to Magnetic Merging (*Invited Paper*)
Edward W. Hones, Jr. 47, 101
- Reconnection in the Earth's Magnetosphere (*Extended abstract*)
F. V. Coroniti 47, 317
- Magnetosphere and Magnetospheric Substorms (*Extended abstract*)
S.-I. Akasofu 47, 321
- On Flares, Substorms, and the Theory of Impulsive Flux Transfer Events
A. Bratenahl and P. J. Baum 47, 345
- Solar Flares and Magnetospheric Substorms (*Invited Summary*)
M. Kuperus 47, 361
- Key Problems in Auroral Flare Processes (*Invited Summary*)
Tatsuzo Obayashi 47, 367
- Cooperation with the SCOSTEP Project: Study of Travelling Interplanetary Phenomena (STIP)
M. Dryer and M. A. Shea 47, 413
- Brief Report about the Flare Build-Up Study (FBS) Workshop and Recommendations Adopted
E. Hones 47, 431
- Probability Distribution Functions of Microscale Magnetic Fluctuations during Quiet Conditions
Y. C. Whang 53, 507
- The Equatorward Extent of Auroral Activity during 1973-74
N. R. Sheeley, Jr. 58, 405
- Sunspot Turning-Points and Aurorae since A.D. 1510
D. J. Schove 63, 423
- Magnetospheric Substorms and Solar Flares
S.-I. Akasofu 64, 333
- The Equatorial Latitude of Auroral Activity during 1972-1977
N. R. Sheeley, Jr. and R. A. Howard 67, 189
- Are Solar Flares a Result of a Sudden Conversion of Magnetic Energy Stored Prior to Their Onset?
S.-I. Akasofu 71, 107
- Passage of the Solar Current Disk and Major Geomagnetic Storms
S.-I. Akasofu 71, 175
- 160-min Pulsations in the Magnetosphere of the Earth Possibly Caused by Oscillations of the Sun
B. M. Vladimirovsky, V. P. Bobova, N. M. Bondarenko, and V. K. Veretennikova 82, 451
- The Reason for Magnetospheric Substorms and Solar Flares
Walter J. Heikkilä 88, 329
- Magnetosphere, Aurora** (*see Magnetosphere*)
- Magnetosphere, Earth** (*see Magnetosphere*)
- Magnetosphere, Geomagnetic Disturbances**
- Effects Associated with the Sector Boundary Crossing on July 8, 1966
Z. Švestka 4, 361
- The Physical Significance of the Unusual Worldwide Fluctuations of Cosmic-Ray Intensity on July 14-15, 1961
H. S. Ahluwalia, M. Zubieta, and M. Schreier 4, 453
- The Solar Particle Events of May 23 and May 28, 1967
S. T. Lindgren 5, 382
- Electrons and Protons in Long-Lived Streams of Energetic Solar Particles
K. A. Anderson 6, 111
- Sudden Commencement Associated Discontinuities in the Interplanetary Magnetic Field Observed by IMP 3
Harold E. Taylor 6, 320

Solar Activity and the 11-Year Modulation of Cosmic Rays

V. K. Balasubrahmanyam 7, 39

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. I: The Quiet Component of the 9.1-cm Emission and the 'M-Regions'

J. Roosen 7, 448

A Comparison of Energetic Storm Protons to Halo Protons

S. W. Kahler 8, 166

Hydromagnetic Shocks in the Solar Wind

K. W. Ogilvie and L. F. Burlaga 8, 422 *Errata 11, 180*

Helium Abundance in the Solar Wind

K. W. Ogilvie and T. D. Wilkerson 8, 435

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. III: Sunspots and Geomagnetic Activity

J. Roosen 8, 450

The Geomagnetic and Cosmic-Ray Storm of May 25/26, 1967

S.-I. Akasofu, P. D. Perreault, and S. Yoshida 8, 464

Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 (*Invited Review Paper*)

Z. Švestka and P. Simon 10, 3

Discussion of Paper 'A Comparison of Energetic Storm Protons to Halo Protons'

L. J. Lanzerotti 11, 145

Reply to Discussion by Lanzerotti

Stephen W. Kahler 11, 148

Additional Electron Flux Detection after Magnetic Perturbations

S. A. Volobuyev, A. M. Galper, V. V. Dmitrenko, V. G. Kirillov-Ugryumov, B. I. Luchkov, and E. M. Shermanzon 20, 491

Low-Energy Proton Increases Associated with Interplanetary Shock Waves

R. A. R. Palmeira, F. R. Allum, and U. R. Rao 21, 204

Change of Solar Flare Proton to Alpha Ratios during an Energetic Storm Particle Event

M. Scholer, D. Hovestadt, and B. Häusler 24, 475

Solar Activity and the Variations of the Geomagnetic K_p -Index. I: Photospheric Activity

John T. Mariska and Ludwig Oster 26, 241

Equatorial Coronal Arches and Geomagnetic Disturbance

C. Sawyer and Shirley F. Hansen 26, 370

Shock Wave Effects in Solar Cosmic Ray Events

I. D. Palmer 27, 466

The Representation of the Semi-Annual Variation of the Geomagnetic Activity by an Annual Sine Wave

J. Houtgast and A. van Sluiter 31, 513

A Probable Mean Transit Time of the Flare-Generated Disturbances

Ioan Niță 36, 145

On the Limitations of Geomagnetic Measures of Interplanetary Magnetic Polarity

C. T. Russell and R. L. Rosenberg 37, 251

Recurrent Magnetic Activity, Sunspot Number and Its Rate of Decline

B. N. Bhargava and G. K. Rangarajan 40, 235

On the Possibility of Deducing Interplanetary and Solar Parameters from Geomagnetic Records

C. T. Russell 42, 259

Disturbances in the Solar Wind from IPS Measurements in August 1972

B. J. Rickett 43, 237

Coronal Holes, Solar Wind Streams, and Recurrent Geomagnetic Disturbances: 1973-1976

N. R. Sheeley, Jr., J. W. Harvey, and W. C. Feldman 49, 271

Magnetic Field of the Solar Wind

M. I. Pudovkin and A. D. Chertkov 50, 213

A Pictorial Comparison of Interplanetary Magnetic Field Polarity, Solar Wind Speed, and Geomagnetic Disturbance Index during the Sunspot Cycle

N. R. Sheeley, Jr., J. R. Asbridge, S. J. Bame, and J. W. Harvey 52, 485

The Structure of the Solar Flare Stream Magnetic Field

M. I. Pudovkin, S. A. Zaitseva, I. P. Oleferenko, and A. D. Chertkov 54, 155

- An Observational Search for Large-Scale Organization of Five-Minute Oscillations on the Sun
Phil H. Dittmer, Philip H. Scherrer, and John M. Wilcox 57, 3
- The Equatorward Extent of Auroral Activity during 1973-74
N. R. Sheeley, Jr. 58, 405
- Coronal Holes, Solar Wind Streams, and Geomagnetic Activity during the New Sunspot Cycle
N. R. Sheeley, Jr. and J. W. Harvey 59, 159
- Polar Coronal Holes and Solar Cycles
Paul A. Simon 63, 399
- Recurrency and the Origin of the Vertical Component of the Interplanetary Magnetic Field
M. I. Pudovkin, D. I. Ponyavin, and A. D. Chertkov 66, 411
- The Equatorial Latitude of Auroral Activity during 1972-1977
N. R. Sheeley, Jr. and R. A. Howard 67, 189
- Ten Cycles of Solar and Geomagnetic Activity
J. P. Legrand and P. A. Simon 70, 173
- Coronal Holes, Solar Wind Streams, and Geomagnetic Disturbances during 1978 and 1979
N. R. Sheeley, Jr. and J. W. Harvey 70, 237
- Passage of the Solar Current Disk and Major Geomagnetic Storms
S.-I. Akasofu 71, 175
- Type II Solar Radio Events Observed in the Interplanetary Medium. I: General Characteristics
H. V. Cane, R. G. Stone, J. Fainberg, J. L. Steinberg, and S. Hoang 78, 187
- Solar Neutrino and Solar Particles
D. Basu 81, 363
- The Relative Importances of Solar Type IV Radio Bursts and Flare-Site Magnetic Field Orientations as Predictors of Geomagnetic Activity
L. F. McNamara and C. S. Wright 84, 289
- The Relationships between Disappearing Solar Filaments, Coronal Mass Ejections, and Geomagnetic Activity
C. S. Wright and L. F. McNamara 87, 401
- Geomagnetic Disturbances Associated with Disappearing Solar Filaments
J. Hanumath Sastri, K. B. Ramesh, and J. V. S. V. Rao 98, 177
- The Solar Causes of Geomagnetic Disturbances
V. P. Mikhailutsa and M. N. Gnevyshev 98, 387

Magnetosphere, Models (*see Magnetosphere*)

Magnetosphere, -Solar Wind Interactions (*see Magnetosphere*)

Mesogranulation (*see Granulation*)

Molecules

Molecules in the Solar Photosphere

- M. C. Pande, V. P. Gaur, and B. M. Tripathi 7, 17
- The Dependence of Facula-Photosphere Contrast in Molecular Lines on Dissociation Energy
M. C. Pande, V. P. Gaur, and B. M. Tripathi 7, 370
- Equivalent Width of Molecular Lines in Stars. I: Lyman and Werner Bands of H₂ in the Solar Atmosphere
K. S. Krishna Swamy 41, 301

Molecules, Abundances (*see Molecules; Abundances*)

Molecules, Spectrum

The Center-Limb Behavior of Solar Molecular Lines

- George L. Withbroe 3, 146
- A Study of the Green TiO Band in the Sunspot Spectrum
Mitsugu Makita 3, 557
- A Study of Weak Molecular and Atomic Lines in the Photospheric Spectrum
E. A. Mallia 5, 281
- Molecules in the Solar Photosphere
M. C. Pande, V. P. Gaur, and B. M. Tripathi 7, 17
- On H₂O in Sunspots
H. Wöhl 9, 394
- On the Absence of the (0,0) C₂ Swan Band from Sunspot Spectra
David Branch 10, 112

On Some Flare-Sensitive High Photospheric and Low Chromospheric Lines

Yngve Öhman **10**, 178

Identification of SiH Lines in the Solar Disk Spectrum

A. J. Sauval **10**, 319

The Diatomic Molecules BH, BN, and BO in Sunspots and the Solar Abundance of Boron

O. Engvold **11**, 183

New C¹³N¹⁴ Search Regions in the Solar Spectrum

Theodore D. Fay and Arne A. Wyller **11**, 384

The Possible Existence of HOH Lines in the Sunspot Spectrum

E. A. Mallia and D. E. Blackwell **12**, 101

Zeeman Splitting of Molecular Lines in Sunspot Spectra

E. A. Mallia **14**, 125

On Rotational Temperatures of Umbrae

H. Wöhl **15**, 342

An Upper Limit of the Swan Band Intensity in a Sunspot Spectrum

Aert Schadee **15**, 345

The Molecular Spectrum of Sunspots

John C. Webber **16**, 340

On Molecules in Sunspots

H. Wöhl **16**, 362

On Apparent Differences in Magnetic Field Strengths Measured from Zeeman Splittings of Molecular Lines and Fe I $\lambda 5250.2 \text{ \AA}$

Jürgen Staude **17**, 331

Isotopes of Magnesium in the Solar Atmosphere

R. Boyer, J. C. Henoux, and P. Sotirovski **19**, 330

Further Study of H₂O Lines in the Umbral Spectrum in the Region of 0.93μ

E. A. Mallia, D. E. Blackwell, and A. D. Petford **20**, 369

Detection of Blends in the Vicinity of Zeeman Lines

A. Wittmann **23**, 294

On C₂ Lines in Sunspot Spectra

Hubertus Wöhl **24**, 342

C₂ in Sunspots

J. W. Harvey **24**, 354

Water Vapour in Sunspots

L. Staveland **26**, 90

Polarization of Red System CN Lines in Sunspots

J. W. Harvey **28**, 43

The Possible Presence of C₂ Lines in Sunspot Spectra

D. L. Lambert and E. A. Mallia **31**, 123

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. I: The Violet System of CN(0,0)

George H. Mount, Jeffrey L. Linsky, and Richard A. Shine **32**, 13

The Influence of Molecular Blends and Non-Thermal Line Broadening on the Profile of the Zeeman Triplet $\lambda 5250.22$ in Sunspots

Olav Kjeldseth Moe **33**, 393

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. II: CN(1, 1) on the CN Violet System

George H. Mount and Jeffrey L. Linsky **35**, 259

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. III: CH(0, 0) $\lambda 3144$ of the CH C-X System

George H. Mount and Jeffrey L. Linsky **36**, 287

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. IV: Non-LTE Treatment of the CN Violet System

George H. Mount and Jeffrey L. Linsky **41**, 17

Equivalent Width of Molecular Lines in Stars. I: Lyman and Werner Bands of H₂ in the Solar Atmosphere

K. S. Krishna Swamy **41**, 301

A New Method for the Analysis of the Solar Photospheric Spectrum. The Rotational Temperature of the C_2 Molecule

P. Persi 43, 39

Vibration Rotation Bands of NO in Sunspots

V. P. Gaur 46, 121

Equivalent Width of Molecular Lines in Stars. II: Lines of (A-X) Band of CO and SiO in the Solar Atmosphere

K. S. Krishna Swamy 47, 469

Possibility of $^{24}\text{MgH}^+$ in the Solar Atmosphere - High Resolution Rotation-Vibration Spectra

P. D. Singh and W. J. Maciel 49, 217

On AIF Lines in Sunspots

P. S. Murty 54, 377

Vibration Rotation Bands of SiO in Sunspots

V. P. Gaur, M. C. Pande, and B. M. Tripathi 56, 67

On the Gamma System on Nitric Oxide in Sunspots

G. C. Joshi, M. C. Pande, and D. S. Shukla 58, 343

Isotopic Lines of SiO in Sunspots

M. C. Pande and G. C. Joshi 59, 353

On the Presence of SH in the Sunspot Spectrum

G. C. Joshi and M. C. Pande 62, 69

(A-X) System of SiO in Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 62, 77

Molecular Line Haze Opacity in Sunspots

V. P. Gaur, M. C. Pande, and M. Sah 62, 83

On the O_2 Schumann-Runge Band System in Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 63, 79

On Magnesium Monoxide Lines in Sunspot Spectra

P. S. Murty 63, 83

On the Infrared Opacity of Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 64, 255

The 3410 Å Band of the PH Molecule in the Solar Photospheric Spectrum

Elisabete M. De Gouveia and P. D. Singh 90, 259

Thermal Bifurcation in the Upper Photosphere Inferred from Heterodyne Spectroscopy of OH Rotational Lines

Drake Deming, John J. Hillman, Theodor Kostiuk, Michael J. Mumma, and David M. Zipoy 94, 57

Neutrinos

Solar Interior Structure and Luminosity Variations

D. O. Gough 74, 21

Quasi-Biennial Periodicity in the Solar Neutrino Flux and Its Relation to the Solar Structure

Kunitomo Sakurai 74, 35

Solar Neutrino and Solar Particles

D. Basu 81, 363

Adiabatic Oscillations of Solar Models with a High-Z Convective Zone

S. V. Vorontsov and K. I. Marchenkov 82, 215

Solar Neutrino Data and the 11-Year Solar Activity Cycle

Probhas Raychaudhuri 93, 397

The Solar Neutrino Problem (*Invited Review Paper*)

John N. Bahcall 100, 53

The Sun as a System of Elementary Particles (*Invited Review Paper*)

Josip Kleczek 100, 115

The Future of Solar Physics (*Invited Review Paper*)

E. N. Parker 100, 599

Non-Thermal Radiation

Theory of Solar Bursts

Tatsuo Takakura 1, 304 *Corrigenda 3, 624 and 6, 336*

The Hard Solar X-Ray Burst of 18 September 1963

C. de Jager 2, 327

Time Variation of the Spectrum of Gyro-Synchrotron Emission from the SunTatsuo Takakura, Yutaka Uchida, and Keizo Kai **4**, 45 *Corrigendum* **6**, 336**Theory of Deka-keV Solar X-Ray Bursts**R. Snijders **4**, 432**Determination of the Coronal Magnetic Field and the Radio-Emitting Electron Energy from a Type IV Solar Radio Burst**Reuven Ramaty and Richard E. Lingenfelter **5**, 531**Interpretation of Time Characteristics of Solar X-Ray Bursts Referring to Associated Microwave Bursts**Tatsuo Takakura **6**, 133**Comment on the X-Ray Event of July 7, 1966**R. Snijders **6**, 290**Directivity of Solar Hard X-Ray Bursts**Ken-Ichiro Ohki **7**, 260**Microwave and Hard X-Ray Bursts from Solar Flares**Stephen S. Holt and Reuven Ramaty **8**, 119**Longitudinal Distribution of X-Bremsstrahlung on the Solar Disc**Štefan Pintér **8**, 142**On a Possible Proton Origin for Type V Continuum Radiation from a Solar Flare**M. Friedman and S. M. Hamberger **8**, 398**Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data**J. David Bohlin and M. Simon **9**, 183**De-Occultation X-Ray Events of 2 December, 1967**Harold Zirin, William Ingham, Hugh Hudson, and David McKenzie **9**, 269**Gyro-Synchrotron Emission in a Magnetic Dipole Field for the Application to the Center-to-Limb Variation of Microwave Impulsive Bursts**Tatsuo Takakura and Eugenio Scalise, Jr. **11**, 434**Theory of Solar Radio Pulsation**Y. T. Chiu **13**, 420**On the Relative Intensity of Second Branches of U-Like Solar Radio Bursts**D. F. Smith **13**, 444**The Phase of Particle Acceleration in the Flare Development**Z. Švestka **13**, 471**White Light Events as Photospheric Flares**Kazutoshi Najita and Frank Q. Orrall **15**, 176**On the Polarization and Anisotropy of Solar X-Radiation during Flares**Gerhard Elwert and Eberhard Haug **15**, 234**Coherent Synchrotron Deceleration and the Emission of Type II and III Solar Radio Bursts**A. F. Kuckes and R. N. Sudan **17**, 194**10-100 keV Electron Acceleration and Emission from Solar Flares**R. P. Lin and H. S. Hudson **17**, 412**On the Origin of Solar Flare X-Rays**A. A. Korchak **18**, 284**The Deduction of Energy Spectra of Non-Thermal Electrons in Flares from the Observed Dynamic Spectra of Hard X-Ray Bursts**John C. Brown **18**, 489**Magnetic Fields, Bremsstrahlung and Synchrotron Emission in the Flare of 24 October 1969**H. Zirin, Gail Pruss, and Joan Vorpahl **19**, 463**Gyro-Resonance Absorption of Plasma Waves in the Corona and the Fine Structure of Solar Radio Bursts**V. V. Zheleznyakov and E. Ya. Zlotnik **20**, 85**Anisotropy of Solar Hard X-Radiation during Flares**Gerhard Elwert and Eberhard Haug **20**, 413**A Moving Type IV Radio Burst and Its Relation to the Coronal Magnetic Field**George A. Dulk and Martin D. Altschuler **20**, 438**Magnetically Trapped Particles in the Lower Solar Atmosphere**A. O. Benz and T. Gold **21**, 157

- A Comparison of Type III Solar Radio Burst Theories Using Satellite Radio Observations and Particle Measurements
 Larry G. Evans, Joseph Fainberg, and R. G. Stone 21, 198
- Heating of the Solar Flare Plasma by High Energy Electrons
 Chung-Chieh Cheng 22, 178
- Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts
 Dean F. Smith 23, 191
- A Model for Drift Pair and Hook Burst Emission from the Solar Corona
 W. K. Yip 24, 197
- Thick-Target Processes and White-Light Flares
 H. S. Hudson 24, 414
- The Decay Characteristics of Models of Solar Hard X-Ray Bursts
 John C. Brown 25, 158
- Polarization of Hard X-Rays from Solar Flares
 Eberhard Haug 25, 425
- The Self Absorption of Gyro-Synchrotron Emission in a Magnetic Dipole Field: Microwave Impulsive Burst and Hard X-Ray Burst
 Tatsuo Takakura 26, 151
- The Directivity and Polarization of Thick Target X-Ray Bremsstrahlung from Solar Flares
 John C. Brown 26, 441
- Thermal and Non-Thermal Soft X-Ray Bursts
 M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 27, 164
- Preliminary Interpretation of the Polarization Measurements Performed in 'Interkosmos-4' during Three X-Ray Solar Flares
 I. P. Tindo, V. D. Ivanov, B. Valniček, and M. A. Livshits 27, 426
- A Simulation of the Directivity Effect to be Expected in Hard X-Ray Flares
 Michael L. Shaw 27, 436
- Lifetime of Solar Flare Particles in Coronal Storage Regions
 Kinsey A. Anderson 27, 442
- Thick Target X-Ray Bremsstrahlung from Partially Ionized Targets in Solar Flares
 John C. Brown 28, 151
- Non-Thermal Ionization and Recombination Processes during Solar Flares
 M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 29, 93
- The H α Flare as a Secondary Product of a Coronal Instability
 Z. Švestka 31, 389
- K α Line Emission during Solar X-Ray Bursts
 K. J. H. Phillips and W. M. Neupert 32, 209
- Temporal Fine Structure of X-Rays from Trapped Electrons in Solar Flares
 John C. Brown 32, 227
- Pulsating Type IV Solar Radio Bursts
 B. L. Gotwols 33, 475
- A Coherent Radiation Mechanism for Type IV dm Radio Bursts
 Jan Kuijpers 36, 157
- High Resolution Interferometry of the Sun at 3.7 cm Wavelength
 Kenneth R. Lang 36, 351
- The Slowly Varying Component of Solar Meter Wavelength Radiation: A Non-Thermal Radio Source
 A. C. Riddle 36, 375
- On the Nature of Some Active Regions in the Microwave Range
 M. Felli, G. Tofani, E. Fürst, and W. Hirth 42, 377
- The Solar-Flare Infrared Continuum
 K. Ohki and H. S. Hudson 43, 405
- Observations of Solar Gamma Ray Continuum between 360 keV and 7 MeV on August 4, 1972
 A. N. Suri, E. L. Chupp, D. J. Forrest, and C. Reppin 43, 415
- A Radio Burst with Peculiar Polarization Behaviour in July 1974
 P. Steffen 44, 149

Contribution of Electron-Electron Bremsstrahlung to Solar Hard X-Radiation during Flares
Eberhard Haug **45**, 453

Non-Thermal Processes during the 'Build-Up' Phase of Solar Flares and in Absence of Flares
S. R. Kane and M. Pick **47**, 293

Comparison of the 9.1 cm and Soft X-Ray Emission from an Active Region
M. Gerassimenko, J. T. Nolte, and R. D. Petraso **48**, 121

Continuous Injection Model for Hard X-Ray Correlated Microwave Bursts
Christian Mätzler **49**, 117 *Erratum* 53, 197

Oscillations of Coronal Electron Traps Inferred from Hard X-Ray Data
J. C. Brown and A. N. McClymont **49**, 329

Gamma-Ray and Microwave Evidence for Two Phases of Acceleration in Solar Flares
T. Bai and R. Ramaty **49**, 343

On the Nonthermal Excitation and Polarization of X-Ray Lines during Small Flares
Eberhard Haug **61**, 129

An Interpretation of the Decay Characteristics of Solar Hard X-Ray Bursts
Kenji Kawamura, Toshihiro Omodaká, and Ikuro Suzuki **71**, 55

Spatial and Temporal Evolution of Soft and Hard X-Ray Emission in a Solar Flare
Marcos E. Machado, André Duijveman, and Brian R. Dennis **79**, 85

Analysis of the High Resolution Mg XI X-Ray Spectra. III: Non-Thermal Interpretation of Some Spectra
M. Siarkowski, J. Sylwester, G. Bromboszcz, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Umnov, and I. A. Zhitnik **81**, 63

Thermal and Nonthermal Phenomena in Solar Flare Loops at 20 cm Wavelength and in X-Rays
E. J. Schmahl, M. R. Kundu, P. B. Landecker, and D. L. McKenzie **83**, 3

Radio Emission by Parallel Acceleration Mechanism
V. Krishan and C. Sivaram **84**, 125

Non-Thermal and Non-Equilibrium Effects in Soft X-Ray Flare Spectra
A. H. Gabriel, E. Antonucci, and L. Steenman-Clark **86**, 59

Energetics of a Compact Flare
Marcos E. Machado **89**, 133

Microwave, Ultraviolet, and Soft X-Ray Observations of Hale Region 16898

Kiyoto Shibasaki, Franca Chiuderi-Drago, Mauro Melozzi, Cornelis Slottje, and Ester Antonucci **89**, 307

The Spatial Distribution of 6 Centimeter Gyroresonance Emission from a Flaring X-Ray Loop
S. W. Kahler, D. F. Webb, J. M. Davis, and M. R. Kundu **82**, 271

Synchrotron or Plasma Emission in Solar Microwave Flares?
A. O. Benz **94**, 161

Clues to the Mode of Excitation of Fe X Ions in the Solar Corona from the 1980 Eclipse Observations
Jagdev Singh **95**, 253

Hard X-Ray Imaging Evidence of Nonthermal and Thermal Burst Components
Marcos E. Machado, Marta G. Rovira, and Cora V. Sneibrun **99**, 189

Nuclear Reactions (*see Physical Processes*)

Optical Depth (*see Atmospheric Models*)

Oscillator Strengths (*see Atomic Parameters*)

Oscillations

Motions of H α -Spicules along the Solar Limb

G. M. Nikolsky and A. G. Platova **18**, 403

Oscillations of Visible Chromosphere Boundary and Regularity in Position of Spicule Groups along the Limb
Jury V. Platov and Nataly S. Shilova **19**, 52

Tunnel-Effect and Propagation of 5-min Oscillations in the Solar Atmosphere
Y. D. Zhugzhda **25**, 329

Short-Periodic Oscillations of the Magnetic Field of the Sun as a Star

B. A. Ioshpa, V. N. Obridko, and B. D. Shelting **29**, 385

The Five-Minute Period Oscillation in Magnetically Active Regions
A. G. Michalitsanos **30**, 47

Temporal Variations of the Magnetic Field in Sunspots
R. B. Schultz and O. R. White **35**, 309

- Proceedings of the 14th ESLAB Symposium 'Physics of Solar Variations' held in Scheveningen, The Netherlands, 16-19 September 1980, *Table of Contents*
24, 3
- Proceedings of the 14th ESLAB Symposium 'Physics of Solar Variations' held in Scheveningen, The Netherlands, 16-19 September 1980, *Introduction*
V. Domingo, Editor **74, 7**
- Proceedings of the 66th IAU Colloquium on 'Problems of Solar and Stellar Oscillations' held at the Crimean Astrophysical Observatory, U.S.S.R., 1-5 September, 1981, *Table of Contents*
82, 3
- Proceedings of the 66th IAU Colloquium on 'Problems of Solar and Stellar Oscillations' held at the Crimean Astrophysical Observatory, U.S.S.R., 1-5 September, 1981, *Forward*
D. O. Gough, Editor **82, 7**
- Statistical Considerations in the Analysis of Solar Oscillation Data by the Superposed Epoch Method
S. E. Forbush, M. A. Pomerantz, S. P. Duggal, and C. H. Tsao **82, 113**
- On the Accuracy of Frequency Determination by an Autoregressive Spectral Estimator
G. Kovács **82, 123**
- Radiative Transfer and Solar Oscillations (*Invited Review*)
Jørgen Christensen-Dalsgaard and Søren Frandsen **82, 165**
- A New Method for Determining the Helium Abundance in the Solar Atmosphere (*Invited Review*)
G. R. Isaak **82, 205**
- 160-min Oscillations of the Sun as a Means of Studying of Its Internal Structure
E. A. Gavryuseva, Yu. S. Kopysov, and G. T. Zatsepin **82, 209**
- Adiabatic Oscillations of Solar Models with a High-Z Convective Zone
S. V. Vorontsov and K. I. Marchenkov **82, 215**
- Solar Models with Low Opacity
P. A. Kuzurman and A. A. Pamyatnykh **82, 223**
- Theoretical Eigenfrequencies of Solar Oscillations of Low Harmonic Degree l in Five-Minute Range (*Invited Review, Abstract*)
H. Shibahashi and Y. Osaki **82, 231**
- Resonant Coupling between Solar Gravity Modes (*Invited Review*)
W. Dziembowski **82, 259**
- Derivation of the Amplitude Equations of Acoustic Modes of an Unstable Semi-Infinite Polytrope (*Invited Review*)
Jean-Pierre Poyet **82, 267**
- Kolmogorov Unstable Stellar Oscillations
J. Perdang **82, 297**
- A Convenient Method to Obtain Stellar Eigenfrequencies
M. Knölker and M. Stix **82, 331**
- Seismology of Sunspot Atmospheres
Y. D. Žugžda, V. Locāns, and J. Staude **82, 369**
- Adiabatic Oscillations of a Differentially Rotating Star. Second-Order Perturbation Theory
S. V. Vorontsov **82, 379**
- On the Detection of Subphotospheric Convective Velocities and Temperature Fluctuations
D. O. Gough and J. Toomre **82, 401**
- Helioseismology in the Future (*Invited Review*)
R. M. Bonnet **82, 487**
- An Estimation of the Fluctuations in the Extreme Limb of the Sun
Bruce W. Lites **85, 193**
- Umbral Oscillations in the Presence of a Spreading Magnetic Field
P. S. Cally **88, 77**
- Wave Propagation in a Magnetic Cylinder
P. M. Edwin and B. Roberts **88, 179**
- High-Frequency Coronal Oscillations and Coronal Heating
Jay M. Pasachoff and Donald A. Landman **90, 325**
- Solar Irradiance Changes Caused by g-Modes and Large-Scale Convection
Charles L. Wolff **93, 1**

Oscillations in EUV Emission Lines during a Loop Brightening

E. Antonucci, A. H. Gabriel, and B. E. Patchett **93**, 85

On the Accuracy of Line-of-Sight Velocity Measurements Using Telluric Lines as Reference Lines

N. I. Kobanov **99**, 21

Practical Considerations for the Generation of Large Order Spherical Harmonics

Ken G. Libbrecht **99**, 371

Present Problems of the Solar Interior (*Invited Review Paper*)

Ian W. Roxburgh **100**, 21

Inverting Helioseismic Data (*Invited Review Paper*)

Douglas Gough **100**, 65

The 160 Minutes Oscillations (*Invited Review Paper*)

V. A. Kotov **100**, 101

The Future of Solar Physics (*Invited Review Paper*)

E. N. Parker **100**, 599

Oscillations, Intensity

Pulsating Radio Emissions from the Solar Corona

A. Abrami **11**, 104

Quasi-Oscillatory Decay in Type III Bursts

Paolo Santin **18**, 87

Possible Long-Period Oscillations in Solar Radio Emission at Microwaves

Pierre Kaufmann **23**, 178

Intensity Oscillation in H α -Fine Structure

Arvind Bhatnagar and Katsuo Tanaka **24**, 87

On Quasi-Periodic Components with Periods from 30 to 60 min of Amplitude Fluctuations of X-Band Solar Radio Emission

M. M. Kobrin and A. I. Korshunov **25**, 339

Interferometer Observation of Pulsating Sources Associated with a Type IV Solar Radio Burst

Keizo Kai and Akio Takayanagi **29**, 461

Observational Study of the Five-Minute Oscillations in the Solar Atmosphere. I: Oscillatory Velocity and Intensity Fields

K. R. Sivaraman **33**, 319

Observational Study of the Five-Minute Oscillations in the Solar Atmosphere. II: Coherence and Phase Spectra of Velocity and Intensity Fluctuations

K. R. Sivaraman **33**, 333

A Search for 5 min Periodic Structure in Solar 2 cm Emission

Davis D. Sentman and Stanley D. Shawhan **35**, 83

Preliminary Results of Sun Observations at 8.6 mm with the Bordeaux Interferometer

R. Bocchia and F. Poumeyrol **38**, 193

Spectral Analyses of Solar Photospheric Fluctuations. IV: The Low-Wavenumber Power of Granulation Brightness Fluctuations

Frank N. Edmonds, Jr. **44**, 293

The Existence of Quasi-Periodic Oscillations with Periods from a Minute up to Some Hours in the Solar Radio Emission at $\lambda = 3$ cm

M. M. Kobrin, V. V. Pakhomov, and N. A. Prokof'eva **50**, 113

Infrared Continuum Observations of Five-Minute Oscillations

C. A. Lindsey **52**, 263

Comments on the Low-Wavenumber Power of Granulation Brightness Fluctuations

Claude Aime, Julien Borgnino, François Martin, and Gilbert Ricort **53**, 189

4.7 s Nearly Periodic Oscillations Superimposed the Solar Microwave Great Burst of 28 March 1976

Pierre Kaufmann, L. Rizzo Piazza, and J. C. Raffaelli **54**, 179

Chromospheric Oscillations Observed in the Line C II $\lambda 1336$ with OSO-8

Eric G. Chipman **55**, 277

Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. II: Application to Solar Photospheric Observations

B. Schmieder **57**, 245

- Radioheliograph Observations of a Pulsating Structure Associated with a Moving Type IV Burst
M. Pick and G. Trottet **60**, 353
- Common Origin for UV and Radio Fluctuations?
Giannina Poletto **66**, 323
- Five Minute Microwave Solar Oscillations
F. M. Strauss, P. Kaufmann, and R. Opher **67**, 83
- Some Results Concerning the Automatic Photometry of Photographic Chromospheric Images
L. Azzarelli, P. L. Casalini, S. Cerri, R. Falciani, G. Roberti, and L. A. Smaldone **71**, 247
- On the Temporal Variation of the Solar Continuous Brightness Fluctuations. Time Dependence of the Spatial Power Spectra
B. Hadjebi **73**, 25
- RMS-Value and Power Spectrum of the Photospheric Intensity-Fluctuations
W. Schmidt, M. Knölker, and E. H. Schröter **73**, 217
- Short-Period Intensity Fluctuations of Integral Sunlight
A. Claverie, G. R. Isaak, and C. P. McLeod **74**, 73
- On the Dynamics of the Chromosphere above Sunspots
Yu. D. Zhugzhda and V. I. Makarov **81**, 245
- Manifestation of the 160-min Solar Oscillations in Velocity and Brightness (Optical and Radio Observations) (*Invited Review*)
V. A. Kotov, A. B. Severny, T. T. Tsap, I. G. Moiseev, V. A. Efanov, and N. S. Nesterov **82**, 9
- Observation of Global 160-min Infrared (Differential) Intensity Variation of the Sun
V. A. Kotov, S. Koutchmy, and O. Koutchmy **82**, 21
- The Measurement of Long-Period Oscillations at Sacramento Peak Observatory and South Pole
Robin Stebbins and Christopher Wilson **82**, 43
- Solar Oscillations Observed in the Total Irradiance
M. Woodard and H. Hudson **82**, 67
- Detection of Individual Normal Modes of Oscillation of the Sun in the Period Range from 2 hr to 10 min in Solar Diameter Studies
Randall J. Bos and Henry A. Hill **82**, 89
- On the Origin of Oscillations in a Solar Diameter Observed through the Earth's Atmosphere: A Terrestrial Atmospheric or a Solar Phenomenon
Henry A. Hill, Randall J. Bos, and Thomas P. Caudell **82**, 129
- Solar Diameter(s)
J. Rösch and R. Yerle **82**, 139
- Short-Period Oscillations
F.-L. Deubner and J. Laufer **82**, 151
- Spectral-Spatial Analysis of Wave Motions in the Region of the Temperature Minimum of the Sun's Atmosphere
V. E. Merkulenکو, V. I. Polyakov, L. E. Palamarchuk, and N. V. Larionov **82**, 157
- Variability in the Power Spectrum of Solar Five-Minute Oscillations (*Invited Review*)
Frank Hill, Juri Toomre, and Laurence J. November **82**, 411
- Atmospheric Internal Gravity Waves as a Source of Quasiperiodic Variations of the Cosmic Ray Secondary Component and Their Likely Solar Origin (*Invited Review*)
A. M. Galper, V. G. Kirillov-Ugryumov, N. G. Leikov, and B. I. Luchkov **82**, 447
- Short-Period Pulsations Observed Simultaneously by X-Ray and Radio Waves (*Abstract*)
S. S. Degaonkar, T. Takakura, P. Kaufmann, J. E. R. Costa, K. Ohki, and N. Nitta **86**, 237
- The Study of Umbral Flashes in the Umbrae of Two Sunspots
I. P. Turova, R. B. Teplitskaya, and G. V. Kuklin **87**, 7
- Long-Term Quasi-Periodic Oscillations of EUV-Flux on the Sun
E. V. Ivanov **89**, 261
- High-Frequency Coronal Oscillations and Coronal Heating
Jay M. Pasachoff and Donald A. Landman **90**, 325
- Observations of the Distribution of Transition Region Oscillations and Other Properties in a Sunspot
W. Henze, E. Tandberg-Hanssen, E. J. Reichmann, and R. G. Athay **91**, 33
- A Model of the Oscillations in the Chromosphere and Transition Region above Sunspot Umbrae
Y. D. Žugžda, J. Staudé, and V. Locāns **91**, 219

On the Absence of Critical Levels in the Solar Atmosphere

Steven J. Schwartz and Nicole Bel **92**, 133

Persistent 1.5 s Oscillations Superimposed to a Solar Burst Observed at Two mm-Wavelengths

A. M. Zodi, P. Kaufmann, and H. Zirin **92**, 283

Pulsations of Microwave Emission as a Consequence of Oscillatory Transients in the Solar Atmosphere

V. G. Zandanov and A. M. Uralov **93**, 301

Oscillations of the H α Emission in Solar Prominences

E. Wiehr, G. Stellmacher, and H. Balthasar **94**, 285

Oscillations, Stellar

Proceedings of the 66th IAU Colloquium on 'Problems of Solar and Stellar Oscillations' held at the Crimean Astrophysical Observatory, U.S.S.R., 1-5 September, 1981, *Table of Contents*

82, 3

Proceedings of the 66th IAU Colloquium on 'Problems of Solar and Stellar Oscillations' held at the Crimean Astrophysical Observatory, U.S.S.R., 1-5 September, 1981, *Forward*

D. O. Gough, Editor **82**, 7

Kolmogorov Unstable Stellar Oscillations

J. Perdang **82**, 297

A Convenient Method to Obtain Stellar Eigenfrequencies

M. Knölker and M. Stix **82**, 331

Adiabatic Oscillations of a Differentially Rotating Star. Second-Order Perturbation Theory

S. V. Vorontsov **82**, 379

An Essay on Stellar Oscillations and Evolution

Icko Iben, Jr. **82**, 457

Stellar 5 min Oscillations

Jørgen Christensen-Dalsgaard and Søren Frandsen **82**, 469

Oscillations, Velocity

Velocity Fields in the Solar Atmosphere

Robert Howard **2**, 3

Some Properties of Velocity Fields in the Solar Photosphere

Franz Ludwig Deubner **2**, 133

Some Observations Bearing on the Problem of the Short-Period Oscillations

Robert Howard and William C. Livingston **3**, 434

On the Influence of Seeing on Photospheric Velocity Measurements

Franz Ludwig Deubner **3**, 439

Further Comments on the SPO Problem

W. C. Livingston **3**, 448

A New Method of Magnetograph Observation of the Photospheric Brightness, Velocity, and Magnetic Fields

Robert Howard, Andrew S. Tanenbaum, and John M. Wilcox **4**, 286

The Effect of Short-Periodic Oscillations in the Photosphere on the Spectral Line Profile

R. B. Teplitskaya **6**, 18

Oscillatory Phenomena in Quiescent Prominences

J. Kleczek and M. Kuperus **6**, 72

Non-Divergent Oscillations in the Solar Atmosphere

Walter L. Jones **7**, 204

A Fourier Spectrum Analysis of Long Samples of Solar Line Oscillations

G. Gonczi and F. Roddier **8**, 255

Solar Velocity Fields: 5-Min Oscillations and Supergranulation

Andrew S. Tanenbaum, John M. Wilcox, Edward N. Frazier, and Robert Howard **9**, 328

Some Properties of Velocity Fields in the Solar Photosphere. II: The Spatial Distribution of the Oscillatory Field

Franz-Ludwig Deubner **9**, 343

Studies of Granular Velocities. I: Granular Doppler Shifts and Convective Motion

W. Mattig, J. P. Mehlretter, and A. Nesis **10**, 254

Short Period Oscillations and Doppler Velocity Gradients

J. W. Harvey **11**, 26

Vertical Velocities and Horizontal Wave Propagation in the Solar Photosphere

Steven Musman and David M. Rust **13**, 261

- Measurements of Line-of-Sight Velocities in Prominences
Ludwik Liszka **14**, 354
- Trapped Gravity Waves and the Five-Minute Oscillations of the Solar Atmosphere
John H. Thomas, Patricia André Clark, and Alfred Clark, Jr. **16**, 51
- Studies of Granular Velocities. II: Statistical Analysis of Two High-Resolution Spectrograms
J. P. Mehlretter **16**, 253 *Corrigendum 18, 510*
- Some Properties of Velocity Fields in the Solar Photosphere. III: Oscillatory and Supergranular Motions as a Function of Height
Franz-Ludwig Deubner **17**, 6
- Center Limb Observations of Inhomogeneities in the Solar Atmosphere. II: The Na D and Na 5688 Doublets and the Mg I 4571 Line
C. J. Cannon and P. R. Wilson **17**, 288
- On the Oscillatory Velocity Field in Sunspot Atmosphere
A. Bhatnagar **18**, 40
- The Reduction of the Solar Velocity Field into Its Oscillatory and Slowly-Varying Components
N. R. Sheeley, Jr. and A. Bhatnagar **18**, 195
- Measurements of the Oscillatory and Slowly-Varying Components of the Solar Velocity Field
N. R. Sheeley, Jr. and A. Bhatnagar **18**, 379
- Motions of H α -Spicules along the Solar Limb
G. M. Nikolsky and A. G. Platova **18**, 403
- Oscillations of Visible Chromosphere Boundary and Regularity in Position of Spicule Groups along the Limb
Jury V. Platov and Nataly S. Shilova **19**, 52
- Inhomogeneities in the Solar Atmosphere from the Ca II Infra-Red Lines
Pierre Mein **20**, 3
- Interference in Solar Oscillations
R. J. Reif and Steven Musman **20**, 257
- Some Properties of Velocity Fields in the Solar Photosphere. IV: Long Periods, Five Minute Oscillations, and the Supergranulation at Lower Layers
Franz-Ludwig Deubner **22**, 263
- Observations of Short Period Oscillations in Two Dimensions
J. Harvey and Robert Howard **23**, 300
- On the Powerspectrum of the Photospheric Resonance Oscillations
Franz-Ludwig Deubner **23**, 304
- Space and Time Variations of the Solar Na D Line Profiles
C. D. Slaughter and A. M. Wilson **24**, 43
- Solar Seeing and the Spatial Properties of the Five-Minute Oscillations
John H. Thomas **24**, 262
- Velocity Oscillations in the Solar Atmosphere
J. C. Bhattacharyya **24**, 274
- Spectral Analyses of Solar Photospheric Fluctuations. III: Bi-Dimensional Power, Coherence and Phase Spectra of Deep-Seated Radial Velocity and Photometric Fluctuations
Frank N. Edmonds, Jr. and Carol J. Webb **25**, 44
- Tunnel-Effect and Propagation of 5-min Oscillations in the Solar Atmosphere
Y. D. Zhugzhda **25**, 329
- Velocity Oscillations in Solar Plage Regions
Cheng-Jen Chen and Paul S. Lykoudis **25**, 380
- Oscillatory Motions in Sunspots
J. M. Beckers and R. B. Schultz **27**, 61
- Oscillations and Waves in a Sunspot
R. G. Giovanelli **27**, 71
- Observations of Sunspot Umbral Velocity Oscillations
Arvind Bhatnagar, W. C. Livingston, and J. W. Harvey **27**, 80
- Contribution to the Observation of the Photospheric Oscillations
E. Fossat and G. Ricort **28**, 311
- Brightness Fluctuations in the K-Line Wings
Milton Y. Cha and Frank Q. Orrall **28**, 333

Short-Periodic Oscillations of the Magnetic Field of the Sun as a Star

B. A. Ioshpa, V. N. Obridko, and B. D. Shelting 29, 385

Is There Horizontal Phase Propagation of 5-min Oscillations at High Velocities?

Franz-Ludwig Deubner and Nobukazu Hayashi 30, 39

Can Oscillations Grow in a Sunspot Umbra?

D. J. Mullan and H. S. Yun 30, 83

Radiative Damping of Trapped Gravity Waves in the Solar Atmosphere

Patricia André Clark and Alfred Clark, Jr. 30, 319

On the Generation of Umbral Flashes and Running Penumbral Waves

R. L. Moore 30, 403

Analysis of the 5 min Oscillatory Photospheric Motion. I: A Problem in Waveform Classification

O. R. White and M. Y. Cha 31, 23

Analysis of the 5 min Oscillatory Photospheric Motion. II: Statistical Analysis of the Oscillation as a Narrow-Band Random Process

M. Y. Cha and O. R. White 31, 55

What is the Horizontal Scale of the 5-min Oscillations?

Charles L. Wolff 32, 31

The Oscillatory Velocity Field Observed in a Unipolar Sunspot Region

J. B. Rice and V. Gaizauskas 32, 421

The Modulations of Trapped Oscillations in the Solar Chromosphere by Magnetic Fields

Y. Nakagawa 33, 87

Observational Study of the Five-Minute Oscillations in the Solar Atmosphere. I: Oscillatory Velocity and Intensity Fields

K. R. Sivaraman 33, 319

Observational Study of the Five-Minute Oscillations in the Solar Atmosphere. II: Coherence and Phase Spectra of Velocity and Intensity Fluctuations

K. R. Sivaraman 33, 333

The Galloping Chromosphere

C. Sawyer 35, 63

An Interpretation of the Correlation in the Intensity Fluctuations in H and K of Ca II and b_1 of Mg I

K. R. Sivaraman 36, 49

On the Energy Distribution in Wavenumber Spectra of the Granular Velocity Field

Franz-Ludwig Deubner 36, 299

Atomic-Beam Study of the 5-min Solar Wavelength Oscillations

J. L. Snider, J. P. Eisenstein, and G. R. Otten 36, 303

The Origin of the Solar Five-Minute Oscillation

Steven Musman 36, 313

The Response of an Isothermal Atmosphere to Pressure Fluctuations at Its Base and the Five-Minute Oscillations in the Solar Photosphere

R. L. Moore 36, 321

Response of an Optically Thin, Isothermal Atmosphere to a Convective Overshoot

Cheng-Jen Chen 37, 53

Convective Flux in the Solar Photosphere as Determined from Fluctuations

Frank N. Edmonds, Jr. 38, 33

Response of an Isothermal Bounded Atmosphere to an Applied Random Body-Force

G. Berthomieu 38, 311

Some Properties of Velocity Fields in the Solar Photosphere. V: Spatio-Temporal Analysis of High Resolution Spectra

Franz-Ludwig Deubner 39, 31

Power Spectra of Velocity Fluctuations in Plages

Richard G. Teske 39, 79

Response to a Bounded Atmosphere to a Non-Resonant Excitation. I: Isothermal Case

Janine Provost 40, 257

The Nature of the Sunspot Phenomenon. III: Energy Consumption and Energy Transport

E. N. Parker 40, 275

H α Oscillations in Sunspot Umbrae

Gary L. Phillis 41, 71

- Umbral Oscillations and Penumbral Waves in $H\alpha$
R. L. Moore and Frances Tang 41, 81
- The Five-Minute Oscillations in the Solar Atmosphere
S. M. Chitre and M. H. Gokhale 43, 49
- Five-Minute Oscillations of Solar Equivalent Widths
Hartmut Holweger and Larry Testerman 43, 271
- Wave Propagation in the Photosphere
Brigitte Schmieder 47, 435
- A Model for Solar Oscillations at cm and mm Wavelengths
W. L. H. Shuter 48, 85
- Is the Solar 5 min Oscillation an Important Heating Mechanism for the Chromosphere and the Corona?
Peter Ulmschneider 49, 249
- The Height Variation of Granular and Oscillatory Velocities
Richard C. Canfield 50, 239
- Periodic Oscillations Found in Coronal Velocity Fields
Tokio Tsubaki 51, 121
- Pulsation, Rotation and Sunspot Cycle
Dirk K. Callebaut 51, 271
- Wave Propagation in the Quiet Solar Chromosphere
N. Mein 52, 283
- Chromospheric Oscillations Observed in the Line C II $\lambda 1336$ with OSO-8
Eric G. Chipman 55, 277
- An Observational Search for Large-Scale Organization of Five-Minute Oscillations on the Sun
Phil H. Dittmer, Philip H. Scherrer, and John M. Wilcox 57, 3
- Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. II:
Application to Solar Photospheric Observations
B. Schmieder 57, 245
- Motions in Solar Magnetic Tubes. III: Outward Wave Propagation in Sunspot Umbras
R. G. Giovanelli, J. W. Harvey, and W. C. Livingston 58, 347
- Relation between the Mode of Oscillation and the Velocity Amplitude of Chromospheric Waves
N. Mein 59, 3 *Errata* 59, 407
- Motions in Solar Magnetic Tubes. II: The Oscillations
R. G. Giovanelli, W. C. Livingston, and J. W. Harvey 59, 49
- On Depth-Dependence of Photospheric Oscillations
A. Koch, G. Küveler, and E. H. Schröter 64, 13
- Wave Propagation in a Non-Isothermal Atmosphere and the Solar Five-Minute Oscillations
C. Chiuderi and C. Giovanardi 64, 27
- Observations of Coronal Oscillations above an Active Region
Thomas F. Egan and Timothy J. Schneeberger 64, 223
- High Resolution Spectroscopy of the Disk Chromosphere. VII: Oscillations in Plage and Quiet Sun Regions
D. T. Woods and L. E. Cram 69, 233
- Oscillations of a Loop Prominence Preceding a Limb Flare
J. McKim Malville and Mark Schindler 70, 115
- Umbral Oscillations as Resonant Modes of Magneto-Atmospheric Waves
Mark A. Scheuer and John H. Thomas 71, 21
- Redistribution of Energy by Vertical Oscillations in the Solar Atmosphere
R. K. Tavakol and A. S. Tworkowski 71, 203
- Reflections on Solar Variability
Cornelis de Jager 74, 11
- Solar Interior Structure and Luminosity Variations
D. O. Gough 74, 21
- Solar Oscillations: Past, Present, and Future
G. R. Isaak 74, 43
- Structure of the 5-Minute Solar Oscillations 1976-1980
A. Claverie, G. R. Isaak, C. P. McLeod, H. B. van der Raay, and T. Roca Cortès 74, 51
- Solar Pulsations Observed from the Geographic South Pole: Initial Results
Eric Fossat, Gerard Grec, and Martin Pomerantz 74, 59

Present State of the Study of 160-Minute Solar Oscillation

A. B. Severny, V. A. Kotov, and T. T. Tsap **74, 65**
Overstability of Acoustic Modes and the Solar Five-Minute Oscillations

H. M. Antia, S. M. Chitre, and D. Narasimha **77, 303**
Umbral Oscillations in a Detailed Model Umbra

John H. Thomas and Mark A. Scheuer **79, 19**
Manifestation of the 160-min Solar Oscillations in Velocity and Brightness (Optical and Radio Observations)
(*Invited Review*)

V. A. Kotov, A. B. Severny, T. T. Tsap, I. G. Moiseev, V. A. Efanov, and N. S. Nesterov **82, 9**
Structure of the Solar Oscillation with Period near 160 Minutes

Philip H. Scherrer and John M. Wilcox **82, 37**
Full-Disk Observations of Solar Oscillations from the Geographic South Pole: Latest Results (*Invited Review*)

Gérard Grec, Eric Fossat, and Martin A. Pomerantz **82, 55**
Detection of Solar Five-Minute Oscillations of Low Degree

P. H. Scherrer, J. M. Wilcox, J. Christensen-Dalsgaard, and D. O. Gough **82, 75**
Helioseismology with High Degree *p*-Modes (*Invited Review*)

F. L. Deubner **82, 103**
Recent Observations of High-Degree Solar *p*-Mode Oscillations at the Kitt Peak National Observatory (*Invited Review, Abstract*)

Edward J. Rhodes, Jr., John W. Harvey, and Thomas L. Duvall, Jr. **82, 111**
Short-Period Oscillations

F.-L. Deubner and J. Laufer **82, 151**
Observation of Five-Minute-Period Gravity Waves in the Solar Photosphere (*Invited Review, Abstract*)

R. T. Stebbins, Philip R. Goode, and Henry A. Hill **82, 163**
The Study of Velocity Oscillations in the Solar Photosphere Using the Velocity Subtraction Technique

N. I. Kobanov **82, 237**
On the Excitation of Oscillations of the Sun (Numerical Models)

A. G. Kosovichev and A. B. Severny **82, 323**
On the Influence of Nonlinearities on the Eigenfrequencies of Five-Minute Oscillations of the Sun

Gaetano Belvedere, Douglas Gough, and Lucio Paternò **82, 343**
Excitation of the Solar Oscillations by Objects Consisting of γ -Matter

S. I. Blinnidov and M. Yu. Khlopov **82, 383**
Variability in the Power Spectrum of Solar Five-Minute Oscillations (*Invited Review*)

Frank Hill, Juri Toomre, and Laurence J. November **82, 411**
Torsional Oscillations of the Sun (*Invited Review, Abstract*)

Robert Howard **82, 437**
Evidence for the Phi-Dependent Rotation-Oscillation of the Sun (and for the Driving Mechanism of the Asymmetric Dynamo)

I. K. Csada **82, 439**
The Observations of 80-min Oscillations in the Quiescent Prominences

V. S. Bashkirtsev, N. I. Kobanov, and G. P. Mashnich **82, 443**
160-min Pulsations in the Magnetosphere of the Earth Possibly Caused by Oscillations of the Sun

B. M. Vladimirovsky, V. P. Bobova, N. M. Bondarenko, and V. K. Veretennikova **82, 451**
The Study of Umbral Flashes in the Umbrae of Two Sunspots

I. P. Turova, R. B. Teplitskaya, and G. V. Kuklin **87, 7**
Low- l 5-min Oscillation Observations

J. R. Kuhn and Michael O'Hanlon **87, 207**
Space and Time Variations of K I 7699 Solar Line Profile

T. Roca-Cortés, M. Vázquez, and H. Wöhl **88, 1**
On the Problem of Spicular Oscillations

V. I. Kulidzanishvili and Yu. D. Zhugzhda **88, 35**
Observations of the Distribution of Transition Region Oscillations and Other Properties in a Sunspot

W. Henze, E. Tandberg-Hanssen, E. J. Reichmann, and R. G. Athay **91, 33**
Oscillatory Processes in Prominences

V. S. Bashkirtsev and G. P. Mashnich **91, 93**
A Model of the Oscillations in the Chromosphere and Transition Region above Sunspot Umbrae

Y. D. Žugžda, J. Staude, and V. Locāns **91, 219**

On the Absence of Critical Levels in the Solar Atmosphere

Steven J. Schwartz and Nicole Bel 92, 133

Umbral Oscillations Measured in the Stokes-V Inversion Point

H. Balthasar and E. Wiehr 94, 99

Oscillations of the H α Emission in Solar Prominences

E. Wiehr, G. Stellmacher, and H. Balthasar 94, 285

The Oscillating Loop Prominence of July 17, 1981

B. Vrsnak 94, 289

Interpretation of Oscillations in UV Lines Observed above Sunspot Umbrae

J. Staude, Y. D. Žugžda, J. Staude, and V. Locāns 95, 37

Personalia**George Ellery Hale, 1868-1938**

Harold Zirin 5, 435

Lucien d'Azambuja (1884-1970)

Jean Rösch 15, 261

In Memoriam, Marcel Gilles Josef Minnaert

Albrecht Unsöld 17, 3

In Memoriam: K. O. Kiepenheuer (1910-1975)

A. Bruzek 43, 3

An Editorial Note: Dr. Eugene N. Parker First Recipient of the George Ellery Hale Prize

Cornelis de Jager and Zdeněk Švestka 60, 3

In Memoriam: Guglielmo Righini (1908-1978)

L. Rosino 62, 3

In Memoriam: S. I. Syrovatskii (1925-1979).

S. L. Mandel'stam and B. V. Somov 67, 3

Award of George Ellery Hale Prize to J. Paul Wild

68, 419

Citation of Dr. J. Paul Wild as Recipient of the G. E. Hale Prize Awarded by the Solar Physics Division of the American Astronomical Society, 17 June 1980

68, 421

In Memoriam: V. A. Krat (1911-1983)

V. M. Sobolev and Yu. I. Vitinsky 89, 1

R. G. Giovanelli: In Memoriam

John T. Jefferies 94, 1

Photosphere**Spectral Analyses of Solar Photospheric Fluctuations. I: Power, Coherence and Phase Spectra Calculated by Fast-Fourier-Transform Techniques**

Frank N. Edmonds, Jr. and Carol J. Webb 22, 276

Bright Photospheric Areas Surrounding Sunspot Groups at 5700 Å

Richard A. Miller 36, 91

The Response of an Isothermal Atmosphere to Pressure Fluctuations at Its Base and the Five-Minute Oscillations in the Solar Photosphere

R. L. Moore 36, 321

Time-Averaged Observations of the Sun with a 3840 Å Filter

Gary A. Chapman 37, 151

Convective Flux in the Solar Photosphere as Determined from Fluctuations

Frank N. Edmonds, Jr. 38, 33

White Light Network in the Solar Photosphere

Sou-Yang Liu 39, 297

On Some Properties of the Photospheric Structure

V. A. Krat 50, 259

Infrared Continuum Observations of Five-Minute Oscillations

C. A. Lindsey 52, 263

Two-Dimensional Spatial Spectrum of the Photospheric Brightness Field near to the Solar Disc Center

V. N. Karpinsky and V. V. Mekhanikov 54, 25

Dependence of the Correlation of Small Scale Photospheric Structures upon Resolution

R. G. Teske and G. H. Elste **62**, 241

A Continuum Bright Point at the Penumbra Edge

H. Zirin and R. L. Moore **67**, 79

On the Temporal Variation of the Solar Continuous Brightness Fluctuations. Time Dependence of the Spatial Power Spectra

B. Hadjebi **73**, 25

RMS-Value and Power Spectrum of the Photospheric Intensity-Fluctuations

W. Schmidt, M. Knölker, and E. H. Schröter **73**, 217

Large-Scale Brightness Inhomogeneities in the Solar Atmosphere

Walter E. Mitchell, Jr. **80**, 3

Can Mirage Phenomena Be Traced on the Sun?

Yngve Öhman **96**, 209

Observations of Very Low Contrast White Light Solar Structures Utilizing Differential Photometry

E. J. Seykora **99**, 39

The Fine Structure of the Quiet Sun (*Invited Review Paper*)

R. Muller **100**, 237

Photosphere, Magnetic Fields (*see Magnetic Fields, Photosphere*)

Photosphere, Models

The Bilderberg Model of the Photosphere and Low Chromosphere

O. Gingerich and C. de Jager **3**, 5

Inhomogeneities in the Solar Photosphere

Thomas E. Margrave, Jr. and Thomas L. Swihart **6**, 12

On a More Precise Calculation of the Electric Conductivity in the Photosphere and in Sunspots

M. Kopecký and G. V. Kuklin **6**, 241

Temperature Fluctuations in the Solar Photosphere

P. R. Wilson **6**, 364

Temperature Fluctuations in the Solar Photosphere. II: The Mean Limb-Darkening and the Second Maximum

P. R. Wilson **9**, 303

Depth-Dependent Line Blanketing by Neutral and Ionized Metals in a Homogeneous Model Solar Photosphere

Thomas E. Margrave, Jr. **11**, 22

Interpretation of the Solar Continuum from 1680 to 600 Å. Model of the Transition Region Photosphere-Chromosphere and of the Chromosphere

Yvette Cuny **16**, 293

The Harvard-Smithsonian Reference Atmosphere

O. Gingerich, R. W. Noyes, W. Kalkofen, and Y. Cuny **18**, 347

Inhomogeneities in the Solar Atmosphere from the Ca II Infra-Red Lines

Pierre Mein **20**, 3

A First Order Analysis of Variations of the Limb Darkening and the Shapes for Solar Fraunhofer Lines

R. G. Athay, B. W. Lites, O. R. White, and J. W. Brault **24**, 18

On the Adjustment of Outer Solar Layer Models

I. A. Krinberg and R. B. Teplitskaya **25**, 305

The Effect of Mechanical Waves on Empirical Solar Models

Peter Ulmschneider and Wolfgang Kalkofen **28**, 3

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. I: The Violet System of CN(0,0)

George H. Mount, Jeffrey L. Linsky, and Richard A. Shine **32**, 13

A Preliminary Theoretical Line-Blanketed Model Solar Photosphere

Robert L. Kurucz **34**, 17

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. II: CN(1, 1) on the CN Violet System

George H. Mount and Jeffrey L. Linsky **35**, 259

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. III: CH(0, 0) λ 3144 of the CH C-X System

George H. Mount and Jeffrey L. Linsky **36**, 287

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. IV: Non-LTE Treatment of the CN Violet System
George H. Mount and Jeffrey L. Linsky **41**, 17

Inhomogeneous Model of the Photosphere
P. Turon **41**, 271

A Comparison of Synthetic and Measured Solar Continuum Intensities and Limb Darkening Coefficients
T. R. Ayres **57**, 19

A Two-Dimensional Solar Model
George Driver Nelson **60**, 5

Solar Atmospheric Model Including OH-Continuum Opacity
P. W. Fox and S. P. Tarafdar **60**, 241

Electrical Conductivity in Sunspots and the Quiet Photosphere
P. Kovitya and L. Cram **84**, 45

Thermal Bifurcation in the Upper Photosphere Inferred from Heterodyne Spectroscopy of OH Rotational Lines
Drake Deming, John J. Hillman, Theodor Kostiuk, Michael J. Mumma, and David M. Zipoy **94**, 57

The Physics of Thermal Instability in Two Dimensions
L. Sparks and G. Van Hoven **97**, 283

Photosphere, Network

Coronal Polar Plumes
Gordon Newkirk, Jr. and John Harvey **3**, 321

High-Resolution Photography of the Solar Chromosphere. II: The Relationship between Chromospheric and Photospheric Faculae
R. J. Bray **4**, 318

The Photospheric Network
G. A. Chapman and N. R. Sheeley, Jr. **5**, 442

Magnetic Knots near a Sunspot
V. M. Grigorjev **6**, 67

Interpretation of Infrared Oxygen Spectroheliograms
Richard C. Altrock **7**, 343

The Dependence of Facula-Photosphere Contrast in Molecular Lines on Dissociation Energy
M. C. Pande, V. P. Gaur, and B. M. Tripathi **7**, 370

The Evolution of the Photospheric Network
N. R. Sheeley, Jr. **9**, 347

Simultaneous Measurements of Magnetic Fields and Brightness Fields Using a 4-Image Spectroheliograph
N. R. Sheeley, Jr. and O. Engvold **12**, 69

The Herschel Effect and Solar Photography
R. Jayanthan **12**, 163

Lifetime of the H α Chromospheric Network
Ernest H. Rogers **13**, 57

An Interference Filter for Observing the Photospheric Network
Gary A. Chapman **13**, 78

On Temperature in Line-Gap Regions
U. Grossmann-Doerth **13**, 287

On the Physical Conditions in the Photospheric Network: An Improved Model of Solar Faculae
Gary A. Chapman **14**, 315

Vertical Structure of Plages
M. N. Stoyanova **15**, 349

On the Connection between N-S and E-W Solar Asymmetries
A. M. Cantù, G. Godoli, and G. Poletto **15**, 356

Magnetically Non-Split Lines in Faculae
G. Stellmacher and E. Wiehr **18**, 220

Using CN λ 3883 Spectroheliograms to Map Weak Photospheric Magnetic Fields
N. R. Sheeley, Jr. **20**, 19

A Comparison of the Intensity Variations of the CN Photospheric and K Line Chromospheric Network with Time
S. Y. Liu and N. R. Sheeley, Jr. **20**, 282

The Asymmetry of Solar Activity in the Years 1959-1969

M. Waldmeier **20**, 332

Multi-Channel Magnetograph Observations. III: Faculae

Edward N. Frazier **21**, 42

An Intensity Distribution of Bright Points Observed on a CN Spectroheliogram

Bruce Gillespie **21**, 93

Turbulent Velocity in Undisturbed and Active Photosphere

O. G. Badalyan and M. A. Livshits **22**, 297

Faculae and East-West Asymmetry of Sunspot Area

C. Sawyer and M. W. Haurwitz **23**, 429

The Velocity Fields in Active Regions

Robert Howard **24**, 123

Some Observational Results on Moustaches

Anton Bruzek **26**, 94

Time-Average Spectroheliograms

G. A. Chapman **26**, 299

A Model of Solar Flares and Faculae

J. H. Piddington **31**, 229

Magnetic-Field Structure of the Photospheric Network

J. O. Stenflo **32**, 41

On the Structure of the Solar Photosphere

V. A. Krat **32**, 307

Some Remarks on Line Weakenings in Photospheric Faculae

B. Caccin, R. Falciani, and A. Donati-Falchi **35**, 41

Time-Averaged Observations of the Sun with a 3840 Å Filter

Gary A. Chapman **37**, 151

The Enigmatic Periodicity of the Solar Oblateness

R. H. Dicke **37**, 271

Observations of Photospheric Faculae at the Center of the Solar Disk

J. P. Mehlretter **38**, 43

Power Spectra of Velocity Fluctuations in Plages

Richard G. Teske **39**, 79

White Light Network in the Solar Photosphere

Sou-Yang Liu **39**, 297

High-Resolution Photography of the Solar Chromosphere. XV: Preliminary Observations in Fe I $\lambda 6569.2$

R. J. Bray, R. E. Loughhead, and E. J. Tappere **39**, 323

Horizontal Velocities in the Solar Photosphere

Dainis Dravins **40**, 53

A Model of Photospheric Faculae Deduced from White Light High Resolution Pictures

R. Muller **45**, 105

The Dark Component of the Photospheric Network

Stephen A. Schoolman and Harry E. Ramsey **50**, 25

An Improved Measurement of a Spectrogram of a 'Gap'

G. A. Chapman and N. R. Sheeley, Jr. **51**, 61

Measurements of Magnetic Fluxes and Field Strengths in the Photospheric Network

Theodore D. Tarbell and Alan M. Title **52**, 13

Vertical Velocity Fluctuations in Plage-Region Magnetic Points

R. G. Giovanelli and N. Brown **52**, 27

Morphological Properties and Origin of the Photospheric Facular Granules

R. Muller **52**, 249

On a Possible Mechanism of Solar Faculae Heating

S. I. Vainstein, G. V. Kuklin, and V. P. Maksimov **53**, 15

Photospheric Network from Study of Manganese Lines

G. Elste and R. G. Teske **59**, 275

On the Appearance of Magnetic Flux in the Solar Photosphere

Cornelis Zwaan **60**, 213

High Resolution Photographs of the Sun near 200 nm

M. Hersé 63, 35

Center to Limb Variation of the Intensity of the Photospheric Faculae

Tadashi Hirayama and Fumio Moriyama 63, 251

Structure and Evolution of Magnetic Network Features

N. Kömle 64, 213

Statistics of the Largest Sunspot and Facular Areas per Solar Cycle

D. M. Willis and Y. Kabasakal Tulunay 64, 237

The Use of Solar Faculae in Studies of the Sunspot Cycle

G. M. Brown and D. R. Evans 66, 233

Characteristics of Plage Fragments with Photospheric Network Properties

D. J. Nauer, R. G. Teske, and G. E. Elste 67, 23

An Exploratory Two-Dimensional Study of the Coarse Structure of Network Magnetic Fields

R. G. Giovanelli 68, 49

Latitude Variations of Photospheric Activity Areas with Particular Reference to Solar Faculae

G. M. Brown and D. R. Evans 68, 141

Faculae, Filigree and Calcium Bright Points

P. R. Wilson 69, 9

Possible Use of (a) Solar Faculae and (b) the Interplanetary Magnetic Field as Heralds of a Solar Cycle Peak

G. M. Brown 74, 125

Structure and Physics of Solar Faculae. I: Principles and Observational Procedures from Ground-Based Instruments and OSO-8 Satellite

S. Dumont, Z. Mouradian, and J.-C. Pecker 78, 71

The Dynamical Behavior of Facular Points in the Quiet Photosphere

R. Muller 85, 113

The Characteristic Size and Brightness of Facular Points in the Quiet Photosphere

Richard Muller and Stephen L. Keil 87, 243

On the Relation between Chromospheric and Photospheric Fine Structure in an Active Region

R. Kitai and R. Muller 90, 303

On the Interpretation of Fraunhofer Line Doppler Shifts at Supergranule Boundaries

P. Miller, P. Foukal, and S. Keil 92, 33

Plasma Motion in Umbrae and the Surrounding Photosphere Derived from Spectroscopic Doppler Measurements and Tracer Measurements of Spots

Axel Koch 93, 53

Variability of the Quiet Photospheric Network

R. Muller and Th. Roudier 94, 33

The Influence of Faculae on Sunspot Heat Blocking

Wei-Hwan Chiang and Peter Foukal 97, 9

Precise Wideband Photometry of Photospheric Faculae with an Emphasis on the Disk Center

Tadashi Hirayama, Shigeo Hamana, and Kazuo Mizugaki 99, 43

The Fine Structure of the Quiet Sun (*Invited Review Paper*)

R. Muller 100, 237

Photosphere, Spectrum

Color in Solar Granulation

John W. Evans 3, 344

Absolute Wavelengths of Fraunhofer Lines: Convective Motions in the Solar Photosphere and the Gravitational Red Shift

D. L. Lambert and E. A. Mallia 3, 499

On the Difference between the Photometric Inhomogeneities on the Solar Surface in Two Colors

G. Vassilyeva 4, 300

A New Method for the Analysis of Equivalent Widths and Its Application to Solar Photospheric Oxygen

Richard C. Altrock 5, 260

A Study of Weak Molecular and Atomic Lines in the Photospheric Spectrum

E. A. Mallia 5, 281

Forbidden Lines of Fe II in the Photospheric Spectrum

D. Emerson and E. A. Mallia 5, 303

Forbidden Lines of Ca II in the Photospheric Spectrum

D. L. Lambert, E. A. Mallia, and B. Warner **7**, 11

Molecules in the Solar Photosphere

M. C. Pande, V. P. Gaur, and B. M. Tripathi **7**, 17

On Some Flare-Sensitive High Photospheric and Low Chromospheric Lines

Yngve Öhman **10**, 178

On the Spectrum of Granular and Intergranular Regions

R. Howard and A. Bhatnagar **10**, 245

The Abundance of Cadmium in the Solar Atmosphere

Øivind Hauge **10**, 315

Identification of SiH Lines in the Solar Disk Spectrum

A. J. Sauval **10**, 319

Europium and Lanthanum in Sunspot and in the Undisturbed Photosphere

G. Bachmann, K. Pflug, and J. Staude **15**, 113

The Use of Echelle Gratings in Single-Pass Spectrometers

A. D. Petford, D. E. Blackwell, B. S. Collins, P. A. Ibbetson, E. A. Mallia, G. Smith, and D. Emerson **19**, 264

Spectral Lines from Photosphere to Chromosphere, Observed during the March 1970 Eclipse: A First Comparison with Theory

J. Houtgast, O. Namba, R. J. Rutten, and J. W. Wijbenga **21**, 281

The Solar Abundance of Thorium and Lead

Ø. Hauge and H. Sørli **30**, 301

Oscillator Strengths for $2pnd-2pn'f$ Transitions of C I and Identification in the Infrared Solar Photospheric Spectrum ($1 \leq \lambda \leq 3 \mu$)

E. Biémont **32**, 117

Temperature Variations in the Solar Photosphere. II: Temperature Sensitivity of Some Fraunhofer Lines

B. Caccin, A. Donati-Falchi, and R. Falciani **33**, 49

Line-Intensities in the Photosphere-Chromosphere Transition Region. II: Observational Material from the 1961 Eclipse at Brač

E. L. van Dessel, J. Houtgast, and D. Koelbloed **33**, 375

One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. II: CN(1, 1) on the CN Violet System

George H. Mount and Jeffrey L. Linsky **35**, 259

Line Intensities in the Photosphere-Chromosphere Transition Region. III: Empirical NLTE Analysis of Fe I Lines

E. L. van Dessel **38**, 351

The Photospheric Barium Spectrum: Solar Abundance and Collision Broadening of Ba II Lines by Hydrogen

Hartmut Holweger and Edith A. Müller **39**, 19

Detection of Small Scale Structure in Metal Lines at the Extreme Solar Limb

W. C. Livingston and O. R. White **39**, 289

Isotopes of Samarium in the Sun

A. Ekeland and Ø. Hauge **42**, 17

Supplementary Remarks to 'On the Average Depth of Formation of Weak Fraunhofer Lines' by E. Gurtovenko, V. Ratnikova and C. de Jager

E. A. Gurtovenko and V. A. Ratnikova **42**, 43

On the Center-to-Limb Variation of Infrared Photospheric Carbon Lines and the Infrared Continuum Intensity around $1.75 \mu\text{m}$

Hubertus Wöhl **43**, 285

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. III: Results for Mn I

Emile Biémont **44**, 269

On the Gamma System on Nitric Oxide in Sunspots

G. C. Joshi, M. C. Pande, and D. S. Shukla **58**, 343

The Empirical Determination of Damping Constants in the Solar Photosphere. I: Preliminary Results for Fe I Lines

E. A. Gurtovenko and N. N. Kondrashova **68**, 17

The Empirical Determination of Damping Constants in the Solar Photosphere. II: Results Inferred from the Wings of Fe I Lines

E. A. Gurtovenko, G. L. Fedorchenko, and N. N. Kondrashova 77, 291

Fraunhofer Line Profiles

A. Keith Pierce 90, 195

Photosphere, Stellar (*see Stellar Physics*)

Photosphere, Structures (*see Photosphere*)

Photosphere, Temperature

On a Difference of the Chromospheric Background Intensity between the Equatorial and Polar Regions of the Sun

C. J. Macris 1, 101

Observational Studies of the Solar Intensity Profile in the Far Infrared and Millimeter Regions

R. W. Noyes, J. M. Beckers, and F. J. Low 3, 36

Limb-Darkening Observations between 1800 and 2900 Å

R. M. Bonnet and J. E. Blamont 3, 64

The Far Ultraviolet Spectrum of the Sun

Owen Gingerich and John C. Rich 3, 82

The Solar Continuum from 900 to 130000 Å and the Photospheric Temperature Model

A. Sauval 3, 89

A Simplified Model Solar Atmosphere

D. L. Lambert 3, 118

Emission Cores in H and K Lines. I: The Optically Thick Chromosphere

R. Grant Athay and A. Skumanich 3, 181

Temperature Fluctuations in the Solar Photosphere

P. R. Wilson 6, 364

Temperature Fluctuations in the Solar Photosphere. II: The Mean Limb-Darkening and the Second Maximum

P. R. Wilson 9, 303

Far Infrared Measurement of the Solar Minimum Temperature

John A. Eddy, Pierre J. Léna, and Robert M. MacQueen 10, 330

Measurements in the Solar Spectrum between 1400 and 1875 Å with a Rocket-Borne Spectrometer

W. H. Parkinson and E. M. Reeves 10, 342

The UV Continuum 1450-2100 Å and the Problem of the Solar Temperature Minimum

K. G. Widing, J. D. Purcell, and G. D. Sandlin 12, 52

Temperature Difference between the Equator and the Poles of the Sun

B. Caccin, R. Falciani, G. Moschi, and M. Rigutti 13, 33

On Temperature in Line-Gap Regions

U. Grossmann-Doerth 13, 287

Empirical Solar Continuum Models

J. L. Remo 16, 288

Formation of the Ca II K-Line Core with Arbitrary Temperature Minima

Herbert A. Beebe 17, 304

On the Solar Oblateness: The Combined Effect of a Pole-Equator Difference in Effective Temperature and Mechanical Heating

B. R. Durney and N. E. Werner 21, 21

Measurements of the Limb Darkening in the Forbidden Mg I Line at 4571.1 Å

O. R. White, R. C. Altrock, J. W. Brault, and C. D. Slaughter 23, 18

Observations of Photospheric Pole-Equator Temperature Differences

Richard C. Altrock and Richard C. Canfield 23, 257

Ultraviolet Ion Chamber Measurements of the Solar Minimum Brightness Temperature

J. H. Carver, B. H. Horton, G. W. A. Lockey, and Bryan Rofe 27, 347

The Effect of Mechanical Waves on Empirical Solar Models

Peter Ulmschneider and Wolfgang Kalkofen 28, 3

Equator-Pole Temperature Difference and the Solar Oblateness

R. W. Noyes, T. R. Ayres, and D. N. B. Hall 28, 343

The Solar Temperature Distribution with Latitude

R. J. Rutten **28**, 347

Temperature Difference between Pole and Equator of the Sun

A. Peraiah **30**, 29

Temperature Variations in the Solar Photosphere. II: Temperature Sensitivity of Some Fraunhofer Lines

B. Caccin, A. Donati-Falchi, and R. Falciani **33**, 49

Temperature Variations in the Solar Photosphere. II: A Search for Equator-to-Pole Differences in Photospheric Temperature

R. Falciani, M. Rigutti, and G. Roberti **35**, 277

The Continuum of the Extreme Limb and the Chromosphere at the 1970 Eclipse

H. Kurokawa, K. Nakayama, T. Tsubaki, and M. Kanno **36**, 69

A Facular Model Based on the Wings of the Ca II Lines

Richard A. Shine and Jeffrey L. Linsky **37**, 145

Far-Infrared Solar Brightness Measured with a Balloon-Borne Lamellar-Grating Interferometer

P. Stettler, J. Rast, F. K. Kneubühl, and E. A. Müller **40**, 337

Temperature Variation with Latitude in the Upper Solar Photosphere: Relevance to Solar Oblateness Measurements and Facular Models

Andrew P. Ingersoll and Gary A. Chapman **42**, 279

The Formation of Mg I 4571 Å in the Solar Atmosphere. V: The Multi-Dimensional Structure of the Photosphere and Low Chromosphere

Richard C. Altrock and C. J. Cannon **42**, 289A New Method for the Analysis of the Solar Photospheric Spectrum. The Rotational Temperature of the C₂ MoleculeP. Persi **43**, 39

Five-Minute Oscillations of Solar Equivalent Widths

Hartmut Holweger and Larry Testerman **43**, 271

Infrared Observations of Supergranule Temperature Structure

Simon P. Worden **45**, 521

Temperature Variations in the Solar Photosphere. III: Kitt Peak Measurements of the Variations of Photospheric Line Profiles with the Heliographic Latitude

B. Caccin, R. Falciani, and A. Donati-Falchi **46**, 29

The Horizontal Variation of Temperature in the Low Solar Photosphere

Richard C. Altrock **47**, 517

Dependence of the Correlation of Small Scale Photospheric Structures upon Resolution

R. G. Teske and G. H. Elste **62**, 241

Characteristics of Plage Fragments with Photospheric Network Properties

D. J. Nauer, R. G. Teske, and G. E. Elste **67**, 23

Thermal Bifurcation in the Upper Photosphere Inferred from Heterodyne Spectroscopy of OH Rotational Lines

Drake Deming, John J. Hillman, Theodor Kostiuik, Michael J. Mumma, and David M. Zipoy **94**, 57The Solar O I $\lambda 7773$ Triplet. II: Analysis Using Line Inversion TechniquesA. Kavetsky and B. J. O'Mara **96**, 1**Photosphere, Velocity Fields (see Velocity Fields, Photosphere)****Physical Processes (see also Radiative Processes; Non-Thermal Radiation)**

Theory of Solar Bursts

Tatsuo Takakura **1**, 304 *Corrigenda 3, 624 and 6, 336*

Compton Effect Interpretation of Solar Red Shift

J. W. Kierein and B. M. Sharp **3**, 450

Optical Pumping and the D-Line Ratio of Comet 1962-III

N. S. Kovar and R. P. Kovar **3**, 611

Microwave and Hard X-Ray Bursts from Solar Flares

Stephen S. Holt and Reuven Ramaty **8**, 119

Longitudinal Distribution of X-Bremsstrahlung on the Solar Disc

Stéfan Pintér **8**, 142

On a Possible Proton Origin for Type V Continuum Radiation from a Solar Flare

M. Friedman and S. M. Hamberger **8**, 398

- Coronagraph Observations of the Coronal Condensation of 4 February 1962
H. Zirin 11, 497
- Observations and Discussions Concerning 'High' Polarization Features in the Solar Corona
Serge Koutchmy and Kenneth H. Schatten 17, 117
- Magnetic Fields, Bremsstrahlung and Synchrotron Emission in the Flare of 24 October 1969
H. Zirin, Gail Pruss, and Joan Vorpahl 19, 463
- On D-C Electrical Conductivity in a Partially Ionized Solar Magnetoplasma
Arne A. Wyller and Hong Sik Yun 21, 116
- A Guide to Solar Physical Processes.
S. Kahler, Naval Research Laboratory 22, 2
- Heating of the Solar Flare Plasma by High Energy Electrons
Chung-Chieh Cheng 22, 178
- Thick-Target Processes and White-Light Flares
H. S. Hudson 24, 414
- The Decay Characteristics of Models of Solar Hard X-Ray Bursts
John C. Brown 25, 158
- Polarization of Hard X-Rays from Solar Flares
Eberhard Haug 25, 425
- The Directivity and Polarization of Thick Target X-Ray Bremsstrahlung from Solar Flares
John C. Brown 26, 441
- Lifetime of Solar Flare Particles in Coronal Storage Regions
Kinsey A. Anderson 27, 442
- Energetic Solar Particles and Their Relation to Optical Flares
S. Biswas and B. Radhakrishnan 28, 211
- Non-Thermal Ionization and Recombination Processes during Solar Flares
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 29, 93
- Non-Thermal Solar Wind Heating by Supra-Thermal Ions
H. J. Fahr 30, 193
- The Gyro-Synchrotron Radiation from Moving Type IV Sources in the Solar Corona
G. A. Dulk 32, 491
- On the Possibility of Detecting Abundance Inhomogeneities Resulting from Spallation Reactions in the Solar Photosphere
Lennart Hultqvist 34, 25
- Numerical Investigation of Non-Resonant and Resonant Scattering of Charged Particles with a Spatially Varying Magnetic Field
S. Webb and J. J. Quenby 37, 235
- Contribution of Electron-Electron Bremsstrahlung to Solar Hard X-Radiation during Flares
Eberhard Haug 45, 453
- Oscillations of Coronal Electron Traps Inferred from Hard X-Ray Data
J. C. Brown and A. N. McClymont 49, 329
- Non-Thermal Processes in Large Solar Flares
R. P. Lin and H. S. Hudson 50, 153
- Physical Processes Determining the Chromospheric Temperature Distribution
Stuart D. Jordan 51, 51
- Comparison of Flare Bremsstrahlung Resulting from Energetic Thermal and Nonthermal Electrons
J. Davis and J. E. Rogerson 51, 185
- The Production of Lithium in the Solar Chromosphere and Photosphere during White Light Flares
Lennart Hultqvist 52, 101
- Coronal He⁺ λ 304 Radiation
Imad A. Ahmad 53, 409
- The Decay of Coronal Loops Brightened by Flares and Transients
Allen S. Krieger 56, 107
- A Study of Type V Solar Radio Bursts. II. A Theoretical Model
R. D. Robinson 56, 405
- On the Collisional Theory of the Anisotropic Solar Wind Plasma
D. Summers 56, 429

- Scattering of Fast Flare Electrons in Solar Atmosphere and Their X-Ray Spectrum
G. Elwert and R. R. Rausaria **57**, 409
- Observations and Interpretation of Moving Type IV Solar Radio Bursts
R. D. Robinson **60**, 383
- The Lack of Chemical Separation during the Diffusion of Gas into Solar Magnetic Tubes
R. G. Giovanelli **62**, 51
- Non-Thermal Effects Associated with Steep Temperature Gradients in the Transition Zone
D. S. Spicer **62**, 269
- Application of the Trap-Plus-Precipitation Hard X-Ray Burst Model to the Flare of August 4, 1972
A. Gordon Emslie, Malcolm G. McGaig, and John C. Brown **63**, 175
- The Heating of the Temperature Minimum Region in Solar Flares - A Reassessment
A. Gordon Emslie and Marcos E. Machado **64**, 129
- Coulomb Losses and the Nuclear Composition of the Solar Flare Accelerated Particles
A. A. Korchak **66**, 149
- Observations and Interpretation of Solar Decameter Type IIIb Radio Bursts
V. Krishan, K. R. Subramanian, and Ch. V. Sastry **66**, 347
- Dynamic Spectral Characteristics of Thermal Models for Solar Hard X-Ray Bursts
John C. Brown, Ian J. D. Craig, and Judith T. Karpen **67**, 143
- The Role of Betatron Acceleration in Complex Solar Bursts
Judith T. Karpen **77**, 205
- Is There a Common Explanation for Scattering of Type III Radio Bursts and Solar Radar?
Donat G. Wentzel **79**, 375
- Dissipation and Stability of Return Currents in Solar Flares
John C. Brown and John Hayward **80**, 129
- Thermal and Nonthermal Phenomena in Solar Flare Loops at 20 cm Wavelength and in X-Rays
E. J. Schmahl, M. R. Kundu, P. B. Landecker, and D. L. McKenzie **83**, 3
- Chromospheric Heating by Electron and Proton Bombardment in the Solar Flare of June 7, 1980
A. Gordon Emslie **84**, 263
- Polarization in Spectral Lines. II: A Classification Scheme for Solar Observations
E. Landi Degl'Innocenti **85**, 33 *Erratum 88, 391*
- Non-Thermal and Non-Equilibrium Effects in Soft X-Ray Flare Spectra
A. H. Gabriel, E. Antonucci, and L. Steenman-Clark **86**, 59
- Comparisons of Solar Flare X-Ray Producing and Escaping Electrons from ~ 2 to 100 keV
Lian-De Pan, R. P. Lin, and S. R. Kane **91**, 345
- The H^- Equilibrium Using Coupled Rate Equations for H^- , H , H^+ , H_2 , and H_2^+
Bruce W. Lites and Dimitri Mihalas **93**, 23
- Energy Release in Solar Flares
P. A. Sturrock, P. Kaufmann, R. L. Moore, and D. F. Smith **94**, 341
- Observations of Steady Anomalous Magnetic Heating in Thin Current Sheets
P. C. H. Martens, G. H. J. Van Den Oord, and P. Hoyng **96**, 253
- Hard X-ray Bremsstrahlung Produced by Electrons Escaping a High-Temperature Thermal Source in a Solar Flare
Luidi Nocera, Yu. I. Skrynnikov, and Boris V. Somov **97**, 81
- On Heating and Cooling in Some Active Region Loops
Udit Narain and Mukul Kumar **99**, 111
- Hard X-Ray Imaging Evidence of Nonthermal and Thermal Burst Components
Marcos E. Machado, Marta G. Rovira, and Cora V. Sneibrun **99**, 189
- Present Problems of the Solar Interior (*Invited Review Paper*)
Ian W. Roxburgh **100**, 21
- The Solar Neutrino Problem (*Invited Review Paper*)
John N. Bahcall **100**, 53
- The Sun as a System of Elementary Particles (*Invited Review Paper*)
Josip Kleczek **100**, 115

Plages (*see Chromosphere, Network*)

Planets

Application of the Hypersonic Analog to the Standing Shock of Mars

Murray Dryer and Gary R. Heckman 2, 112

On the Relation between the Solar Activity Cycle and the Solar Tidal Force Induced by the Planets

Kozo Takahashi 3, 598

Solar Activity and Planetary Luminosity

V. K. Balasubrahmanyam and D. Venkatesan 19, 257

Planetary Influences on the Large-Scale Distribution of Solar Activity

P. Ambrož 19, 480

Test for Planetary Influences on Solar Activity

L. A. Dingle, G. Van Hoven, and P. A. Sturrock 31, 243

Planetary Tides and Sunspot Cycles

J. J. Condon and R. R. Schmidt 42, 529

Forbidden Ca II in the Sun Unmasked by Way of Venus

Ronald A. Schorn, Andrew T. Young, and Edwin S. Barker 43, 9

Correlated Variations of Planetary Albedos and Coincident Solar-Interplanetary Variations

Steven T. Suess and G. W. Lockwood 68, 393

Excitation of the Solar Oscillations by Objects Consisting of γ -Matter

S. I. Blinnidov and M. Yu. Khlopov 82, 383

A Possible Relationship between Spectral Bands in Sunspot Number and the Space-Time Organization of Our Planetary System

H. Schwentek and W. Elling 93, 403

The 160 Minutes Oscillations (*Invited Review Paper*)

V. A. Kotov 100, 101

Plasma Ejections (*see Plasma Physics*)

Plasma Instabilities (*see Plasma Physics; Instabilities*)

Plasma Physics

Currents in the Solar Atmosphere and a Theory of Solar Flares

H. Alfvén and P. Carlqvist 1, 220

Theory of Solar Bursts

Tatsuo Takakura 1, 304 *Corrigenda* 3, 624 and 6, 336

The Nature of Quiescent Solar Prominences

Max Kuperus and Einar Tandberg-Hanssen 2, 39

The Electrical Conductivity in Sunspot Regions

Ludwig Oster 3, 543

A Possible Acceleration Mechanism for a Solar Surge

Martin D. Altschuler, Carl G. Lilliequist, and Yoshinari Nakagawa 5, 366

On a More Precise Calculation of the Electric Conductivity in the Photosphere and in Sunspots

M. Kopecký and G. V. Kuklin 6, 241

Current Limitation and Solar Flares

P. Carlqvist 7, 377

Plasma Turbulence in Solar Flares as an Explanation of Some Observed Phenomena

M. Friedman and S. M. Hamberger 8, 104

On Acceleration and Motion of Ions in Corona and Solar Wind

Johannes Geiss, Peter Hirt, and Heinrich Leutwyler 12, 458

A Study of the Composition of the Solar Corona and Solar Wind

M. P. Nakadä 14, 457

Towards a Theory for Type III Solar Radio Bursts. I: Nature of the Exciting Agency

D. F. Smith 15, 202

The Cooling of Flare Produced Plasmas in the Solar Corona

J. L. Culhane, J. F. Vesecky, and K. J. H. Phillips 15, 394

Thermal Properties of the Solar Wind Plasma

Tsutomu Toichi 18, 150

Wave Propagation in the Warm Plasma and the Spectrum of the Solar Radio Bursts

L. Mollwo 19, 128

- Acceleration of Electrons and Solar Flares Due to Quasi-Static Electric Field
Tatsuo Takakura **19**, 186
- A Pulsating Regime of Stream Instability and the Origin of 'Rain' Type Radio Bursts
V. V. Zaitsev **20**, 95
- On D-C Electrical Conductivity in a Partially Ionized Solar Magnetoplasma
Arne A. Wyller and Hong Sik Yun **21**, 116
- Magnetically Trapped Particles in the Lower Solar Atmosphere
A. O. Benz and T. Gold **21**, 157
- Heating of the Solar Flare Plasma by High Energy Electrons
Chung-Chieh Cheng **22**, 178
- Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts
Dean F. Smith **23**, 191
- A Model for Drift Pair and Hook Burst Emission from the Solar Corona
W. K. Yip **24**, 197
- A Dynamic Theory of Type III Solar Radio Bursts
V. V. Zaitsev, N. A. Mityakov, and V. O. Rapoport **24**, 444
- Particle Motions in Coronal Streamers and Type III Radio Bursts
Dean F. Smith and G. W. Pneuman **25**, 461
- Note on Solar Plasma Irregularities and Plasma Instabilities
S. K. Alurkar **26**, 225
- Thermal Conductivity in Solar Magnetoplasmas
Hong Sik Yun and Arne A. Wyller **27**, 44
- Non-Thermal Solar Wind Heating by Supra-Thermal Ions
H. J. Fahr **30**, 193
- A Theory of the Origin of the Split Pair Burst Emission from the Solar Corona
W. K. Yip **30**, 513
- Spatial Dispersion of Faraday Rotation and Its Connection with Mode Coupling
Christian Mätzler **32**, 241
- Towards a Better Dynamic Theory for Type III Radio Bursts
Dean F. Smith **33**, 213
- Towards a Theory for Type III Solar Radio Bursts. II: The Radiation Source
Dean F. Smith **34**, 393
- On the Nature of Plasma Arcs in Solar Active Regions
Ryszard Gajewski **35**, 385
- On the Third Harmonic in Solar Radio Bursts
V. V. Zheleznyakov and E. Ya. Zlotnik **36**, 443
- Numerical Investigation of Non-Resonant and Resonant Scattering of Charged Particles with a Spatially Varying Magnetic Field
S. Webb and J. J. Quenby **37**, 235
- Resonant Scattering of Particles and Second Phase Acceleration in the Solar Corona
D. B. Melrose **37**, 353
- On the Propagation of the Electron Streams Generating Type III Bursts
D. B. Melrose **38**, 205
- The Stark Broadening Mechanism in an Unstable Plasma
D. S. Spicer and J. Davis **43**, 107
- Report on the Solar Physics-Plasma Physics Workshop, held at Stanford University, 17-20 September 1974
P. A. Sturrock, P. J. Baum, J. M. Beckers, C. E. Newman, E. R. Priest, H. Rosenberg, D. F. Smith, and D. G. Wentzel (eds.) **46**, 411
- The Relationship of Electron Plasma Oscillations to Type III Radio Emissions and Low-Energy Solar Electrons (*Abstract only*)
D. A. Gurnett and L. A. Frank **46**, 459
- On the Theory of the Type III Burst Exciter
Robert A. Smith, Melvyn L. Goldstein, and Konstantinos Papadopoulos **46**, 515
- The Role of Plasma Turbulence in the Development of Solar Flares (*Invited Paper*)
M. Kuperus **47**, 79
- Possible Spectral Diagnostics for Turbulent Electric Fields in Solar Flares
P. Bakshi and G. Kalman **47**, 307

- On Flares, Substorms, and the Theory of Impulsive Flux Transfer Events
 A. Bratenahl and P. J. Baum 47, 345
- Solar Flares and Plasma Instabilities: Observations, Mechanisms and Experiments (*Invited Review Paper*)
 Gerard Van Hoven 49, 95
- A Comment on the Acceleration of Charged Particles in the Presence of Micro-Turbulence as Related to Solar Flares
 D. S. Spicer 51, 431
- A Model Explaining Type IV Continuum Bursts by Coherent Nonlinear Interaction of Bernstein Waves
 L. Mollwo and K. Sauer 51, 435
- Collective Plasma Effects and the Electron Number Problem in Solar Hard X-Ray Bursts
 J. C. Brown and D. B. Melrose 52, 117
- Collisionless Deceleration of Fast Electron Streams in the Solar Coronal Plasma
 L. L. Bazelyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko 52, 141
- Regulation of Solar Wind Heat Flux by Ordinary Mode Instability
 G. S. Lakhina 52, 153
- The Effects of Partial Redistribution on Facular K Line Profiles
 J. N. Heasley, F. Kneer, and G. A. Chapman 52, 309
- Gas Entry into Non-Spot Magnetic Tubes
 R. G. Giovanelli 52, 315
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. II: Semi-Analytical Approach
 T. Takakura 52, 429
- Coronal Heating by Ion Acoustic Waves
 P. Revathy 53, 445
- Magnetic Field Energy Dissipation in Neutral Current Sheets
 A. T. Altyntsev, V. I. Krasov, and V. M. Tomozov 55, 69
- Nonrelativistic Electron Stream Propagation in the Solar Atmosphere and Type III Radio Bursts
 G. R. Magelssen and D. F. Smith 55, 211
- On the Problem of Power-Law Spectrum of Particles Accelerated in Solar Flares
 A. A. Korchak 56, 223 *Errata* 58, 211
- A Study of Type V Solar Radio Bursts. II. A Theoretical Model
 R. D. Robinson 56, 405
- Heating and Acceleration of α -Particles in the Solar Wind
 P. Revathy 58, 397
- Conductivity of an Ion-Acoustically Turbulent Plasma
 V. Krishan 59, 29
- Stability of the Ordinary Mode to an Electron Heat Flux
 Don S. Lemons, William C. Feldman, and S. Peter Gary 59, 387
- Solutions of the Fokker-Planck Equation for the Early Time When the Diffusive Modes Are Not Yet Valid
 Jörn E. Kunstmann 59, 395
- The Structure of the Turbulent Shock Wave Propagating in the Solar Atmosphere across the Magnetic Field
 V. V. Zaitsev, O. G. Parfenov, and A. V. Stepanov 60, 279
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. III: Radio Emissions from Plasma Waves
 T. Takakura 61, 143
- Plasma Radiation Diagnostics of the Primary Energy Release Region in Solar Flares
 Dean F. Smith and Daniel S. Spicer 62, 359
- On Proton and Electron Acceleration by Shock Waves during Large Solar Flares
 V. M. Gubchenko and V. V. Zaitsev 63, 337
- A Plasma-Emission Mechanism for Type I Solar Radio Emission
 D. B. Melrose 67, 357
- Non-Maxwellian Velocity Distribution Functions Associated with Steep Temperature Gradients in the Solar Transition Region. I: Estimate of the Electron Velocity Distribution Functions
 Robert Roussel-Dupré 68, 243
- Plasma Acceleration by Ion-Acoustic Turbulence
 V. Krishan 68, 343
- Fundamental Wave of Type III Solar Radio Bursts and Whistler Waves
 T. Takakura 75, 277

- Fundamental Emission for Type III Bursts in the Interplanetary Medium: The Role of Ion-Sound Turbulence
D. B. Melrose **79**, 173
- Ion Acoustic Instability in the Presence of Plasma Turbulence in the Solar Wind
P. Revathy and S. R. Prabhakaran Nayar **79**, 187
- Temperature Minimum Heating in Solar Flares by Resistive Dissipation of Alfvén Waves
A. Gordon Emslie and P. A. Sturrock **80**, 99
- Limitation Imposed by Strong Langmuir Turbulence on the Self-Consistency of the Quasi-Linear Dynamics
R. J.-M. Grogard **83**, 207
- On the Storage of High-Energy Protons in the Solar Corona: The Cyclotron Instability
B. I. Meerson and I. V. Rogachevskii **87**, 337
- Frequency Splitting in Stria Bursts: Possible Roles of Low-Frequency Waves
D. B. Melrose **87**, 359
- The Source Model of Low-Energy Electrons Responsible for Type I and Type III Radio Noise Storms
V. M. Gubchenko and V. V. Zaitsev **89**, 391
- An Evaluation of the Possibility of Studying Flare Plasma Turbulence Using the Satellites of He I Line
Forbidden Components
N. M. Firstova **90**, 269
- Partial Reconstruction of the Initial Conditions for Streams of Energetic Electrons Associated with a Solar Type
III Burst
R. J.-M. Grogard **94**, 165
- Magnetic Reconnection in a High-Temperature Plasma of Solar Flares
B. V. Somov and V. S. Titov **95**, 141
- The Loss-Cone Driven Instability for Langmuir Waves in an Unmagnetized Plasma
R. G. Hewitt and D. B. Melrose **96**, 157
- Quenching of the Beam-Plasma Instability by Large-Scale Density Fluctuations in 3 Dimensions
L. Muschietti, M. V. Goldman, and D. Newman **96**, 181
- Hard X-Ray Bremsstrahlung Produced by Electrons Escaping a High-Temperature Thermal Source in a Solar
Flare
Luidi Nocera, Yu. I. Skrynnikov, and Boris V. Somov **97**, 81
- The Structure of High Temperature Solar Flare Plasma in Non-Thermal Flare Models
A. Gordon Emslie **98**, 281
- Current Interruption by Density Depression
J. S. Wagner, T. Tajima, and S.-I. Akasofu **98**, 305
- Plasma Properties** (*see Plasma Physics*)
- Plasma Turbulence** (*see Plasma Physics*)
- Plasma, Particle Acceleration** (*see Plasma Physics*)
- Plasma, Wave Modes** (*see Waves, Plasma; Plasma Physics*)
- Polarization**
- The Zeeman Effect for Weak Magnetic Fields
Jan Olof Stenflo **8**, 260
- Line Formation in Magnetic Fields. Comments on the Role of Atomic Level Polarization
F. K. Lamb **12**, 186
- On the Polarization of the Emission of X-Ray Solar Flares
I. P. Tindo, V. D. Ivanov, S. L. Mandel'stam, and A. I. Shuryghin **14**, 204
- Some Conclusions from the Direct Comparison between the Observations and the Theory of Solar Disk
Polarization
Jean-Claude Pecker **15**, 88
- On Polarimetry in Solar Active Regions. III: Circular Polarization in Different Lines; Development of Magnetic
Fields
E. Wiehr **15**, 148
- On the Polarization and Anisotropy of Solar X-Radiation during Flares
Gerhard Elwert and Eberhard Haug **15**, 234
- Observations and Discussions Concerning 'High' Polarization Features in the Solar Corona
Serge Koutchmy and Kenneth H. Schatten **17**, 117

Prominent Zeeman Lines in Sunspot Spectra and Their Temperature Sensitivity

A. Wittmann 20, 78

Discussion of Paper 'On the Polarization and Anisotropy of Solar X-Radiation during Flares', by G. Elwert and E. Haug

S. W. Kahler, G. A. Doschek, J. F. Meekins, and D. M. Horan 20, 422

Reply to Discussion by Kahler *et al.*

G. Elwert and E. Haug 20, 425

The Polarization of Coronal Emission Lines

J. M. Beckers and W. J. Wagner 21, 439

Coronal Emission Line Polarization

Lewis L. House 23, 103

New Measurements of the Polarization of X-Ray Solar Flares

I. P. Tindo, V. D. Ivanov, S. L. Mandel'stam, and A. I. Shuryghin 24, 429

Polarization of Hard X-Rays from Solar Flares

Eberhard Haug 25, 425

The Directivity and Polarization of Thick Target X-Ray Bremsstrahlung from Solar Flares

John C. Brown 26, 441

Preliminary Interpretation of the Polarization Measurements Performed in 'Intercosmos-4' during Three X-Ray Solar Flares

I. P. Tindo, V. D. Ivanov, B. Valníček, and M. A. Livshits 27, 426

Polarization of Red System CN Lines in Sunspots

J. W. Harvey 28, 43

Theoretical Study of the Fraunhofer Lines Polarization: The Case of Ca I 4227

Simone Dumont, Alain Omont, and Jean-Claude Pecker 28, 271

The $\lambda 10747$ Coronal Line at the 1966 Eclipse. I: Emission Line Polarization

John A. Eddy, Robert H. Lee, and James P. Emerson 30, 351

Interferometer Observations of a Radio Burst at 8.6 mm Associated with a Polarized Hard X-Ray Event

K. Kawabata, Y. Sofue, H. Ogawa, and T. Omodaka 31, 469

Further Polarization Measurements of the Solar Flare X-Ray Emission

I. P. Tindo, S. L. Mandel'stam, and A. I. Shuryghin 32, 469

Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. I: Photographic Measurement of Stokes Parameters

A. Wittmann 33, 107

On the Polarization of the Solar Coronal Emission Lines

E. Mogilevsky, B. Ioshpa, and V. Obridko 33, 169

The Profile and Polarization of the Coronal $L\alpha$ Line

Jacques M. Beckers and Eric Chipman 34, 151

Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. II: Computation of Stokes Parameter Profiles

A. Wittmann 35, 11

Observations of Resonance Polarization in Ca I $\lambda 4227$

J. O. Stenflo 37, 31

The Crossover Effect in Sunspots and the Fine Structure of Penumbra

A. A. Golovko 37, 113

The Maximum Polarization for Resonance Scattering

J. M. Beckers 37, 351

Polarization Results of Solar X-Rays from OSO-7

M. P. Nakada, W. M. Neupert, and R. J. Thomas 37, 429

Population théorique des sous niveaux Zeeman relatifs à la raie 5303 Å de Fe XIV

J. P. Rozelot 41, 373

Anisotropy and Polarization of Solar X-Ray Bursts

J. C. Henoux 42, 219

The Polarization of X-Ray Emission of Some Solar Flares in July 1974

I. P. Tindo, A. I. Shuryghin, and W. Steffen 46, 219

The Spiral Configuration of Sunspot Magnetic Fields

M. J. Hagyard, E. A. West, and N. P. Cumings 53, 3

The Determination of Vector Magnetic Fields from Stokes Profiles

L. H. Auer, J. N. Heasley, and L. L. House 55, 47

On the Nonthermal Excitation and Polarization of X-Ray Lines during Small Flares

Eberhard Haug 61, 129

Radiation Transfer through a Model Sunspot

Donald A. Landman and Gerard D. Finn 63, 221

Magneto-Optical Effects and the Interpretation of Linearly Polarized Intensity Distributions Observed with a Vector Magnetograph

E. Landi Degl'Innocenti 63, 237

Search for Spectral Line Polarization in the Solar Vacuum Ultraviolet

J. O. Stenflo, D. Dravins, N. Wihlborg, A. Bruns, V. K. Prokof'ev, I. A. Zhitnik, H. Biverot, and L. Stenmark 66, 13

Solar Flare X-Ray Spectra. III: Initial and Final Phase

V. V. Korneev, V. V. Krutov, S. L. Mandelstam, B. Sylwester, I. P. Tindo, A. M. Urmov, B. Valniček, and I. A. Zhitnik 68, 381

Electron Impact Polarization of X-Ray Lines from Hydrogen-Like Ions during Solar Flares

Eberhard Haug 71, 77

Simultaneous Measurements of the Polarization in H α and D₃ Prominence Emissions

Jean-Louis Leroy 71, 285

Thermodynamical Properties of Unresolved Magnetic Flux Tubes. I: A Diagnostic Method Based on Circular Polarization Ratios in Line Pairs

Egidio Landi Degl'Innocenti and Marco Landolfi 77, 13

The Hanle Effect of the Coronal L α Line of Hydrogen: Theoretical Investigation

V. Bommier and S. Sahal-Bréchet 78, 157

Magneto-Optical Effects and the Determination of Vector Magnetic Fields from Stokes Profiles

M. Landolfi and E. Landi Degl'Innocenti 78, 355

Vector Magnetic Fields in Prominences. I: Preliminary Discussion of Polarimeter Observations in He I D₃

Lewis L. House and Raymond N. Smartt 80, 53

The Hanle Effect and the Diagnostics of Turbulent Magnetic Fields in the Solar Atmosphere

J. O. Stenflo 80, 209

Polarization in Spectral Lines. II: A Unifying Theoretical Approach

E. Landi Degl'Innocenti 85, 3 *Erratum 88, 391*

Polarization in Spectral Lines. II: A Classification Scheme for Solar Observations

E. Landi Degl'Innocenti 85, 33 *Erratum 88, 391*

Polarization Measurements Using the Bragg Crystal Spectrometers on HINOTORI

Kyo Akita, Katsuo Tanaka, and Tetsuya Watanabe 86, 101

Conductive Heat Flux in the Chromosphere Derived from Line Linear Polarization Observation

J.-C. Henoux, G. Chambe, D. Heristchi, M. Semel, B. Woodgate, R. Shine, and J. Beckers 86, 115

Asymmetries in Stokes Profiles of Magnetic Lines: a Linear Analysis in Terms of Velocity Gradients

E. Landi Degl'Innocenti and M. Landolfi 87, 221

Interpretation of Vector Magnetograph Data Including Magneto-Optic Effects. I: Azimuth Angle of the Transverse Field

E. A. West and M. J. Hagyard 88, 51

Polarization in Spectral Lines. III: Resonance Polarization in the Non-Magnetic, Collisionless Regime

E. Landi Degl'Innocenti 91, 1

Comparison of Coronal Emission-Line Structure and Polarization

Charles W. Querfeld and Raymond N. Smartt 91, 299

Dependence of the Properties of Magnetic Fluxtubes on Area Factor or Amount of Flux

J. O. Stenflo and J. W. Harvey 95, 99

The Interpretation of Sunspot Magnetic Field Observations

M. G. Adam 96, 27

The Interpretation of Hard X-Ray Polarization Measurements in Solar Flares

John Leach, A. Gordon Emslie, and Vahé Petrosian 96, 331

Hard X-Ray Bremsstrahlung Produced by Electrons Escaping a High-Temperature Thermal Source in a Solar Flare

Luidi Nocera, Yu. I. Skrynnikov, and Boris V. Somov 97, 81

On the Solution of the Radiative Transfer Equations for Polarized Radiation

E. Landi Degl'Innocenti and M. Landi Degl'Innocenti 97, 239

Non-LTE Resonance Line Polarization with Partial Redistribution: The Solar Ca II K Line

G. J. Saliba 98, 1

Polarization of the Sodium D Lines in Prominences

M. Landolfi and E. Landi Degl'Innocenti 98, 53

On the Fine Structure of Polarized Elements in Solar Flares and Moustaches

A. N. Babin and A. N. Koval 98, 159

Polarization, Instrumental (*see Instrumental Effects*)

Polarization, Line (*see Polarization*)

Polarization, Optical

Observations of a Flare Spray at the Solar Limb on July 11, 1966

Y. Öhman, G. Stiber, and U. Kusoffsky 1, 60

Polarized Light, Magnetographs, and Solar Magnetic Fields

Charles L. Hyder 5, 29

Coronal Polarization and Intensity at the November 12, 1966 Solar Eclipse

Warren N. Arnquist, Donald H. Menzel, and Fernando de Romafia 11, 82 *Erratum 12, 510*

Photoelectric Polarimetry of a Dark Unipolar Sunspot

F.-L. Deubner and R. Göhring 13, 118

Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona

Gordon Newkirk, Jr., Robert G. Dupree, and Edward J. Schmahl 15, 15 *Erratum 16, 250*

On Polarimetry in Solar Active Regions. III: Circular Polarization in Different Lines; Development of Magnetic Fields

E. Wiehr 15, 148

Spectropolarimetric Analysis of the Solar Corona during the 12 November, 1966 Total Eclipse

B. Caccin, G. Moschi, M. Rigutti, and R. Falciani 17, 89

Observations and Discussions Concerning 'High' Polarization Features in the Solar Corona

Serge Koutchmy and Kenneth H. Schatten 17, 117

A Polarization-Color Effect in the K-Corona

Donald E. Billings and Young Oh 21, 418

Results of Polarization Observations of the Outer Corona from a Jet Aircraft

C. F. Keller 21, 425

Photometric Intensity and Polarization Measurements of the Solar Corona

David S. McDougal 21, 430

Étude hydrodynamique du grand jet coronal NE observé à l'éclipse du 7 Mars 1970

S. Koutchmy 24, 373

The Results of Coronal Investigation at the September 22, 1968 Solar Eclipse

Ts. S. Khetsuriani and E. I. Tetrushvili 25, 343

On an Anomalous Polarization of the Corona

M. M. Molodensky 28, 465

Polarisation de la lumière, au bord du disque solaire, dans le proche infra-rouge

J. L. Leroy 36, 81

Electrons in the Solar Corona. I: Electron Density Models of Streamers at Eclipse 15 February 1961

Audouin Dollfus, Marius Laffineur, and Zadig Mouradian 37, 367

The Polarization of Continuum Radiation in Sunspots. I: Rayleigh and Thomson Scattering

G. D. Finn and J. T. Jefferies 39, 91

Étude de l'éclipse solaire partielle de 25 Février, 1971 au Pic du Midi

J. P. Rozelot et G. Ratier 40, 371

Precise Determination of the Orientation of the Plane of Polarization in the Solar Corona

A. K. Kishonkov and M. M. Molodensky 42, 341

Observations of Coronal Polarization at the Solar Eclipse of 7 March, 1970

J. Dürst 50, 457

The Polarization of the Inner Solar Corona at the Eclipse of 10 July 1972

G. M. Nikolsky, A. A. Sazanov, and A. K. Kishonkov 53, 79

- Electrons in the Solar Corona. III: Coronal Streamers Analysis from Balloon-Borne Coronagraph
A. Dollfus and Z. Mouradian **70**, 3
- Coronal Transients: Loop or Bubble?
F. Crifo, J. P. Picat, and M. Cailloux **83**, 143
- Broad-Band Circular Polarimetry of Sunspots, 0.4-1.7 Microns: Spatial Scans with a 3.4 Arc Sec Diameter Aperture
Gary D. Henson and James C. Kemp **93**, 289
- Observations of the Solar Corona in Polarized White Light during the Total Solar Eclipse of February 16, 1980: Preliminary Results
F. Clette, P. Cugnon, and A. Koeckelenbergh **98**, 163

Polarization, Radio

- Some Characteristics of an S-Component of Solar Radiation Identified on November 1966 Eclipse at 4.28-cm Wavelength
Pierre Kaufmann **4**, 58
- High-Resolution Observations of Solar Radio Bursts with Multi-Element Compound Interferometers at 3.75 and 9.4 GHz
Shinzo Énomé, Takakiyo Kakinuma, and Haruo Tanaka **6**, 428
- Unpolarized Impulsive Solar Bursts Observed at 7 GHz
Pierre Kaufmann **9**, 166
- A Magnetohydrodynamic Approach for Interpreting Solar Polarization Bursts at 7 GHz
O. T. Matsuura **9**, 173
- Observation of the Magnetic Structure of a Type IV Solar Radio Outburst
J. P. Wild **9**, 260
- Radio Evidence of Directive Shock-Wave Propagation in the Solar Corona
K. Kai **10**, 460
- Gyro-Synchrotron Emission in a Magnetic Dipole Field for the Application to the Center-to-Limb Variation of Microwave Impulsive Bursts
Tatsuo Takakura and Eugenio Scalise, Jr. **11**, 434
- The Structure, Polarization, and Spatial Relationship of Solar Radio Sources of Spectral Types I and III
K. Kai **11**, 456
- The Polarization of Solar Radio Emission at 74 MHz: May 18-26, 1967
G. A. Harvey and L. R. McNarry **11**, 467
- Interpretation of Type I- and IV mB-Bursts and Noise Storms by Mode Coupling in the Warm Plasma
L. Mollwo **12**, 125
- Radio Spectrum of Two Active Regions. (Results of the Total Solar Eclipse of Nov. 12, 1966)
Franca Chiuderi Drago **13**, 357
- 80 MHz Observations of a Moving Type IV Solar Burst, March 1, 1969
A. C. Riddle **13**, 448
- Polarization Changes with Time during Solar Microwave Impulsive Bursts
Pierre Kaufmann, Oscar T. Matsuura, and P. Marques dos Santos **14**, 190
- Some Center-Limb Statistical Trends of Impulsive Solar Bursts at 7 GHz
O. T. Matsuura and M. F. F. Nave **14**, 384
- The Quasi-Stationary Coronal Magnetic Field and Electron Density as Determined from a Faraday Rotation Experiment
C. T. Stelzried, G. S. Levy, T. Sato, W. V. T. Rusch, J. E. Ohlson, K. H. Schatten, and J. M. Wilcox **14**, 440
- Changes in Coronal Condensations Emission after Solar Bursts at Microwaves
Pierre Kaufmann, E. Scalise, Jr., and P. Marques dos Santos **15**, 195
- Polarization Measurements of Solar Type III Radio Bursts at 25.3 MHz
Y. C. Chin, B. B. Lusignan, and P. C. W. Fung **16**, 135
- Three Years Statistics of Simple 3 Solar Bursts
Oscar T. Matsuura and P. Marques dos Santos **17**, 402
- Faraday Rotation Dispersion and the Distribution of Polarization Characteristics of Type III Bursts
A. D. Fokker **19**, 472
- Spectral Features of Large Type IV Bursts and Interrelation to Solar-Terrestrial Phenomena
S. T. Akinyan, E. I. Mogilevsky, A. Böhme, and A. Krüger **20**, 112

- Radio Observations of Filaments during the Eclipses of September 11, 1969 and March 7, 1970
M. Simon and Bengt-Arne Wickström 20, 122
- On the Polarization of Solar Microwave Bursts Observed at 17 GHz
Werner Wassenberg 20, 130
- A Moving Type IV Radio Burst and Its Relation to the Coronal Magnetic Field
George A. Dulk and Martin D. Altschuler 20, 438
- Possible Long-Period Oscillations in Solar Radio Emission at Microwaves
Pierre Kaufmann 23, 178
- Polarization of Solar Active Regions at 9.5 mm Wavelength
M. R. Kundu and T. P. McCullough 24, 133
- Results of Observation of Spectra and Polarization of Meter Solar Radio Emission with High Time Resolution:
May-June, 1969
G. P. Chernov, I. M. Chertok, V. V. Fomichev, and A. K. Markeev 24, 215
- The Time Behavior of the Continua during the Initial Stage of Type IV Bursts
A. Böhme 24, 457
- A Search of a Connection between the Polarization of Decam-Type III Bursts and Magnetic Fields in Different Heights of the Solar Atmosphere
I. M. Chertok, V. V. Fomichev, A. Krüger, and W. Willmczik 25, 452
- Spectral Behaviour and Proton Effects of the Type IV Broad-Band Continua
A. Böhme 25, 478
- Radio Evidence of Twisted Bi-Polar Magnetic Fields in the Solar Corona
D. J. McLean and K. V. Sheridan 26, 176
- Centimeter Radiation Associated with the Solar Limb Prominence of 8 February 1972
M. B. Bell 27, 137
- Polarization Structure of a Solar Flare Region at 9.5 mm Wavelength
M. R. Kundu and T. P. McCullough 27, 182
- On the Long-Term Behaviour of the Circular Polarization from Coronal Condensation Radio Emission at 4.3 cm Wavelength
M. H. Paes de Barros and P. Kaufmann 27, 203
- Polarization Interferometer for 2800 MHz Solar Noise Studies with a 0.5' Fan Beam
M. B. Bell, A. E. Covington, and W. A. G. Kennedy 28, 123
- Observations on the Time and Frequency Structure of Solar Decameter Radio Bursts
Ch. V. Sastry 28, 197
- The Solar Outburst on August 7, 1972 at 17 GHz and 35 GHz
E. Fürst, O. Hachenberg, and W. Hirth 28, 533
- Non-Existence of Linear Polarization in Type III Solar Bursts at 80 MHz
R. J.-M. Grogard and D. J. McLean 29, 149
- Search for Circular Polarized Emission from Solar Hemispheres at Microwaves
P. Kaufmann, E. Scalise, Jr., R. E. Schaal, J. R. D. Lépine, D. Basu, and A. L. Ibañez 29, 393
- Interferometer Observation of Pulsating Sources Associated with a Type IV Solar Radio Burst
Keizo Kai and Akio Takayanagi 29, 461
- Polarization Inversions in the Radio Emission at 237 MHz of McMath Zone 11482
Paolo Santin 30, 159
- On the Observation of Linear Polarization of Solar Microwave Bursts
A. Magun and Ch. Mätzler 30, 489
- Polarization of Solar Active Regions at 3.5 Millimeter Wavelength
M. R. Kundu and T. Gergely 31, 461
- Spatial Dispersion of Faraday Rotation and Its Connection with Mode Coupling
Christian Mätzler 32, 241
- Microwave Observations of the 4 January, 1973 Solar Eclipse
P. Kaufmann, E. Scalise, Jr., P. Marques dos Santos, R. E. Schaal, and R. A. A. Fortunato 33, 69
- Coupling of Microwaves at a Selected Solar Active Centre
Eugenio Scalise, Jr. and Pierre Kaufmann 34, 189
- On a Suggested Explanation for Fine Structures Observed in Some Wide-Band Bursts
W. N.-C. Sy 34, 427
- Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations
K. Kai and K. V. Sheridan 35, 181

- High Resolution Interferometry of the Sun at 3.7 cm Wavelength
Kenneth R. Lang **36**, 351
- Use of Colour to Display the Circular Polarization in Solar Dynamic Spectra
S. Suzuki **38**, 3
- Comparison of Polarization Characteristics of Decametric Type III Solar Radio Bursts at Two Closely Spaced Frequencies
S. K. Mattoo and R. V. Bhonsle **38**, 217
- The Representation of Partially Elliptically Polarized Type III Solar Burst Radiation
S. K. Mattoo and R. V. Bhonsle **38**, 223
- Polarization Features of Type IV Bursts
A. Böhme, F. Fürstenberg, and A. Krüger **39**, 207
- The Microwave Structure of Coronal Condensations and Its Relation to Proton Flares
Haruo Tanaka and Shinzo Énomé **40**, 123
- Analysis of the August 7, 1972 White Light Flare: Light Curves and Correlation with Hard X-Rays
David M. Rust and Frank Hegwer **40**, 141
- Type IIIb Bursts: 80 MHz Source Position and Theoretical Model
Tatsuo Takakura and Shahinaz Yousef **40**, 421
- High Resolution Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths
C. E. Alissandrakis and M. R. Kundu **41**, 119
- On the Nature of Some Active Regions in the Microwave Range
M. Felli, G. Tofani, E. Fürst, and W. Hirth **42**, 377
- Small-Scale Inhomogeneities in the Solar Corona: Evidence from Meter- λ Radio Bursts
D. B. Melrose **43**, 79
- Intermediate Polarization of Type I Bursts
P. Zlobec **43**, 453
- A Radio Burst with Peculiar Polarization Behaviour in July 1974
P. Steffen **44**, 149
- Observations of a Complex Solar Radio Burst with Fine Structure on 3 May 1973
G. P. Chernov, O. S. Korolev, and A. K. Markeev **44**, 435
- Study of a Filament with a Circularly Polarized Beam at 3.8 cm
Ronald M. Straka, Michael D. Papagiannis, and John A. Kogut **45**, 131
- A Model for the Development of a Solar Outburst Based on Observations with the Culgoora Radio Spectrograph and Heliograph
Keizo Kai **45**, 217
- The Solar Radio Event of January 14, 1971. Position and Polarization Behaviour in the Middle Corona
A. Abrami **46**, 229
- A Simple Derivation of Microwave Solar Brightness Temperatures and Polarizations from Thermal Regions
Michael D. Papagiannis and John A. Kogut **48**, 49
- Polarization of a Periodic Solar Microwave Burst
Pierre Kaufmann **50**, 197
- Coronal Faraday Rotation of the Crab Nebula, 1971-1975
Y. Sofue, K. Kawabata, F. Takahashi, and N. Kawajiri **50**, 465
- Microscopic Spectral Features in Solar Decametric Bursts and Coronal Irregularities
H. S. Sawant, R. V. Bhonsle, and S. K. Alurkar **50**, 481
- High Resolution Polarimetry of the Sun at 3.7 and 11.1 cm Wavelengths
Kenneth R. Lang **52**, 63
- Noise Storms and Particular Photospheric Magnetic Structures
C. Zanelli and P. Zlobec **53**, 497
- 4.7 s Nearly Periodic Oscillations Superimposed the Solar Microwave Great Burst of 28 March 1976
Pierre Kaufmann, L. Rizzo Piazza, and J. C. Raffaelli **54**, 179
- Relation between Circular Polarization of Moving Type IV Bursts and Polarity of Photospheric Magnetic Fields
Keizo Kai **56**, 417
- On the Coronal Source Regions of U Bursts
S. Suzuki **57**, 415
- Fast Time Structures Superimposed to Impulsive Solar Microwave Bursts with Slowly Varying or Stationary Polarization Degree
Pierre Kaufmann **60**, 367

- Wave Ducting of Solar Metre-Wave Radio Emission as an Explanation of Fundamental/Harmonic Source Coincidence and Other Anomalies
R. A. Duncan 63, 389
- Measurements of the Magnetic Field and the Gradient of Temperature in the Solar Atmosphere above a Flocculus Using Radio Observations
V. M. Bogod and G. B. Gelfreikh 67, 29
- Preflare Conditions, Changes and Events (*Invited Review Paper*)
Sara F. Martin 68, 217
- A Comparison of Type III Metric Radio Bursts and Global Solar Potential Field Models
Bernard V. Jackson and Randolph H. Levine 73, 183
- Langmuir-Wave Conversion as the Explanation of Moving Type IV Solar Meter-Wave Radio Outbursts
R. A. Duncan 73, 191
- A Long-Enduring Multi-Source Burst at 17 GHz and Its Relation to a Type IV_{m-dm} Burst with Spectral Fine Features
Takeo Kosugi 75, 293
- Differences of Observed Characteristics between Impulsive Bursts and Post-Burst Increases
Keizo Kai, Takeo Kosugi, and Hiroshi Nakajima 75, 331
- The Flare-Related Depression of the Noise Storm on May 5, 1978
A. Böhme and A. Krüger 76, 63
- A Study of the Parameters of Individual Type-I Bursts
A. Kattenberg and G. van der Burg 77, 231
- Source Structure of Gradual Rise and Fall Bursts at 17 GHz
K. Kai, T. Kosugi, and H. Nakajima 78, 243
- The Measurement of Magnetic Fields in the Solar Atmosphere above Sunspots Using Gyroresonance Emission
Sh. B. Akhmedov, G. B. Gelfreikh, V. M. Bodog, and A. N. Korzhavin 79, 41
- Microwave Emission from Hot X-Ray Kernels in Solar Flares
V. V. Zheleznyakov and Yu. V. Tikhomirov 81, 121
- High-Resolution Observations of Solar Radio Bursts at 2, 6, and 20 cm Wavelength
Robert F. Willson 83, 285
- Dual Frequency Observations of Flares with the VLA
George A. Dulk, Timothy S. Bastian, and Gordon J. Hurford 86, 219
- Source Characteristics of Main and Post-Burst-Increase Phases of Solar Bursts at 17 GHz
Takeo Kosugi, Keizo Kai, and Takashi Suzuki 87, 373
- On the Height of Magnetic Fields above Sunspots Derived from RATAN-600 Observations
Sh. B. Akhmedov, G. B. Gelfreikh, F. Fürstenberg, J. Hildebrandt, and A. Krüger 88, 103
- Microwave, Ultraviolet, and Soft X-Ray Observations of Hale Region 16898
Kiyoto Shibasaki, Franca Chiuderi-Drago, Mauro Melozzi, Cornelis Slottje, and Ester Antonucci 89, 307
- Progress and Problems in the Theory of Type III Solar Radio Emission
Martin V. Goldman 89, 403
- Polarization of Fundamental Type III Radio Bursts
Donat G. Wentzel 90, 139
- Observations of Preburst Heating and Magnetic Field Changes in a Coronal Loop at 20 cm Wavelength
Robert F. Wilson 92, 189
- The Relation between Brightness Fluctuations and Polarization of Solar Metre-Wave Emission
R. A. Duncan 92, 363
- Solar Noise Storms Coordinated Observations: May 16-24, 1981 (Summary of Results of a Cooperative Study)
C. Mercier, Ø. Elgarøy, A. Tlamicha, and P. Zlobec 92, 375
- Sharp Edges in Solar Microwave Spectra: Neutral Current Sheets or Cyclotron Lines?
E. J. Schmahl, R. K. Shevgaonkar, M. R. Kundu, and D. McConnell 93, 305
- Structure and Polarization of Active Region Microwave Emission
M. R. Kundu and C. E. Alissandrakis 94, 249
- Timing Analysis of Hard X-Ray Emission and 22 GHz Flux and Polarization in a Solar Burst
J. E. R. Costa, P. Kaufmann, and T. Takakura 94, 369
- The Simplest Solar Microbursts Flux and Circular Polarization at 22 GHz
P. Kaufmann, E. Correia, J. E. R. Costa, H. S. Sawant, and A. M. Zodi Vaz 95, 155
- VLA Observations of Narrow-Band Decimetric Burst Emission
Robert F. Willson 96, 199

Simultaneous Microwave Observations of Solar Flares at 6 and 20cm Wavelengths Using the VLA
M. Melozzi, M. R. Kundu, and R. K. Shevgaonkar **97**, 345

Polarization, X-Ray (*see Polarization*)

Prominences

Observations of a Flare Spray at the Solar Limb on July 11, 1966

Y. Öhman, G. Stiber, and U. Kusoffsky **1**, 60

The Nature of Quiescent Solar Prominences

Max Kuperus and Einar Tandberg-Hanssen **2**, 39

On Arch-Filament Systems in Spotgroups

A. Bruzek **2**, 451

The Magnetic Field in Some Prominences Measured with the He I, 5876 Å Line

J. W. Harvey and E. Tandberg-Hanssen **3**, 316

An H α Filament Observed against the Chromosphere at the Limb

Yngve Öhman **3**, 354

Motions and Magnetic Fields in Quiescent Prominences

J. McKim Malville **4**, 323

Polarized Light, Magnetographs, and Solar Magnetic Fields

Charles L. Hyder **5**, 29

Magnetic Fields in Two Active Prominences

J. McKim Malville **5**, 236

Magnetic Fields in Flares and Active Prominences. I: The Flares in Active Region McMath No. 8818, May 21 and 23, 1967

J. McKim Malville and E. Tandberg-Hanssen **6**, 278

Photométries comparées des émissions de l'hydrogène et de l'hélium dans les régions externes des protubérances

Jean-Louis Leroy **7**, 221

Splintering Loop Prominences

J. Kleczek **7**, 238

Sudden Disappearance of a Large Quiescent Prominence on the Solar Disk, April 28, 1967

Marie McCabe **12**, 115

The Development and Flaring of an Active Region Exhibiting Unusual Magnetic Structure. II: Active Regions

Peter Foukal **13**, 330

Radio Maps of the Sun at $\lambda = 1.95$ cm

Franca Chiuderi Drago and Marcello Felli **14**, 171

H α Coronagraph Observations of a Flare Spray, March 1, 1969

Marie K. McCabe and R. R. Fisher **14**, 212

The Orientation of Magnetic Fields in Quiescent Prominences

E. Tandberg-Hanssen and Ulrich Anzer **15**, 158

On the Connection between N-S and E-W Solar Asymmetries

A. M. Cantù, G. Godoli, and G. Poletto **15**, 356

Magnetic Fields in Quiescent Prominences

Einar Tandberg-Hanssen **15**, 359

Origin of Quiescent Prominences

S. B. Pikel'ner **17**, 44

Thermal Effects in the Formation of Loop Prominences

D. W. Goldsmith **19**, 86

Solar Coronal Streamers Observed at 169 Mhz with the Nançay East-West Radioheliograph

F. Axisa, Y. Avignon, M.-J. Martres, M. Pick, and P. Simon **19**, 110

Mass Motions in a Flare Spray

Marie K. McCabe **19**, 451

The Asymmetry of Solar Activity in the Years 1959-1969

M. Waldmeier **20**, 332

Eclipse Observations in the Rocket Ultraviolet

T. L. J. Jones, W. H. Parkinson, R. J. Speer, and C. Yang **21**, 372

Observation of a Smoke Ring on October 30, 1970

Ichiro Kawaguchi, Nobuyuki Oda, and Shun Mizuno **22**, 140

- Comments on Filament-Disintegration and Its Relation to Other Aspects of Solar Activity
Helen W. Dodson, E. Ruth Hedeman, and Marta Rovira de Miceli 23, 360
- Physics of Solar Prominences. Report on an International Colloquium held at the German Solar Observatory.
Anacapri, September 29 to October 1, 1971
Anton Bruzek and Max Kuperus 24, 3
- On the Relation between Filaments (Prominences) and H α Loops
A. Bruzek 24, 118
- Magnetic Fields and Helium-D₃ Spectroheliograms
G. A. Chapman 24, 288
- On the Line Intensity Ratios $E(\text{H}\alpha)/E(\text{D}3)$ and $E(\text{H}\beta)/E(\text{D}3)$ in Prominences
G. Stellmacher 25, 104
- Observations of Prominences at 3.5 Millimeter Wavelength
M. R. Kundu 25, 108
- Emissions 'froides' dans la couronne solaire
Jean-Louis Leroy 25, 413
- The Magnetic Structure of Arch Filament Systems
Edward N. Frazier 26, 130
- The Magnetic Configuration of the November 18, 1968 Loop Prominence System
J.-René Roy 26, 418
- Thermal Instability of Coronal Neutral Sheets and the Formation of Quiescent Prominences
M. A. Raadu and M. Kuperus 28, 77
- Filter Observations of Prominences in the D₃ and H α Lines
I. S. Kim and G. M. Nikolsky 28, 377
- Some Comments on the Low Intensity H α Emission Observed by J.-L. Leroy in the Solar Corona
Yngve Öhman 28, 399
- On the Aller's Admixture Radiation Effect during the Compression Process in the Solar Corona and Generation of Coronal Formations
R. E. Guseinov 28, 457
- Positions of Filament Feet in Relation to the Supergranular Calcium Network
S. P. Łocieniak and B. Rompolt 29, 399
- The Limb Flare of August 11, 1972
M. Waldmeier 30, 129
- The Evolution of Prominences and Their Relationship to Active Centers (A Review)
Sara F. Martin 31, 3
- The Arch Systems, Cavities and Prominences in the Helmet Streamer Observed at the Solar Eclipse, November 12, 1966
Kuniji Saito and E. Tandberg-Hanssen 31, 105
- On the Mechanism of Formation of Loop Prominences
Bibhas R. De 31, 437 *Erratum* 33, 262
- Association of Solar Prominences and Coronal Magnetic Sheets from Their Observed Correlation with Type III Radiobursts
C. Mercier 33, 177
- Theoretical Model of Flares and Prominences. I: Evaporating Flare Model
T. Hirayama 34, 323
- The Formation of Solar Quiescent Prominences by Condensation
E. Hildner 35, 123
- The Coronal Disturbance of 1972, August 12
Anthony C. Riddle, Einar Tandberg-Hanssen, and Richard T. Hansen 35, 171
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . I: First Event of 1973 January 11
R. T. Stewart, Marie K. McCabe, M. J. Koomen, R. T. Hansen, and G. A. Dulk 36, 203
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . II: Second Event of 1973 January 11
R. T. Stewart, R. A. Howard, F. Hansen, T. Gergely, and M. Kundu 36, 219
- The Alfvén-Wave Theory of Solar Flares
J. H. Piddington 38, 465
- Magnetic Fields in Flares and Active Prominences. II: The Field Configuration in Some Active Prominences
E. Tandberg-Hanssen and J. McKim Malville 39, 107

- Dynamic Response of an Isothermal Static Corona to Finite-Amplitude Disturbances
Y. Nakagawa, S. T. Wu, and E. Tandberg-Hanssen 41, 387
- Evidence for Downflow Following a Coronal Transient?
E. Hildner and W. C. Livingston 42, 391
- Global Distribution of Filaments during Solar Cycle No. 20
Richard Hansen and Shirley Hansen 44, 225
- A Distinctive Type of Ascending Prominence - 'Fountain'
E. Tandberg-Hanssen, R. T. Hansen, and A. C. Riddle 44, 417
- On the Possible Mechanism of Formation of Emission Rim in Hydrogen Filaments
R. I. Kostik and T. V. Orlova 45, 119
- On the Structure of Filaments from Centimeter and Millimeter Observations
M. Butz, E. Fürst, W. Hirth, and M. R. Kundu 45, 125
- Study of a Filament with a Circularly Polarized Beam at 3.8 cm
Ronald M. Straka, Michael D. Papagiannis, and John A. Kogut 45, 131
- The Calculation of Force-Free Fields from Discrete Flux Distributions
N. R. Sheeley, Jr. and J. W. Harvey 45, 275
- The Sources of Material Comprising a Mass Ejection Coronal Transient
E. Hildner, J. T. Gosling, R. T. Hansen, and J. D. Bohlin 45, 363
- H α Contrast Profiles of Filament Features
P. Maltby 46, 149 *Erratum/Replacement Figures: Figs. 1, 2, 3, 4(a) - 53, 547*
- Evolution of Fibrils with Special Reference to Flare Activity
Katsuo Tanaka 47, 247
- Type II-IV Radio Bursts and Compact and Diffuse White-Light Clouds in the Outer Corona of December 14, 1971
Takeo Kosugi 48, 339
- Association of X-Ray Arches with Chromospheric Neutral Lines
Patrick S. McIntosh, A. S. Krieger, J. T. Nolte, and G. Vaiana 49, 57
- The Fine Structure of Prominences. I: Observations - H α Filtergrams
Oddbjørn Engvold 49, 283
- A Possible Example of Giant Convective Cells Delineated by Magnetic Fields
W. J. Wagner and L. B. Gilliam 50, 265
- Production of a Short-Lived Filament by a Surge
H. Zirin 50, 399
- Measurement of the Prominences Magnetic Field
O En Den, I. S. Kim, and G. M. Nikolsky 52, 35
- The Fine Structure of Prominences. III: Small Scale Doppler Shifted Features
O. Engvold and J. McKim Malville 52, 369
- Prominence Mass Ejections and Their Effects on the Corona. I: The Eruptive Prominence of 21 August 1973 and the Surge of 4 December 1973
J. B. Smith, Jr., D. M. Speich, R. M. Wilson, E. Tandberg-Hanssen, and S. T. Wu 52, 379
- The Formation of Solar Prominences by Thermal Instability in a Current Sheet
E. A. Smith and E. R. Priest 53, 25
- Kinematic Model of Loop Prominences Formation
L. N. Ivanov and Yu. V. Platov 54, 35
- Differential Rotation of Short-Lived Solar Filaments
W. M. Adams and Frances Tang 55, 499
- A Loop Prominence System Observed on May 24, 1972
Muammer Dizer 59, 357
- The Fine Structure of Prominences. V.: Active Edges of Quiescent Prominences
O. Engvold, J. M. Malville, and W. Livingston 60, 57
- Simultaneous Measurements of Ca⁺ K, Ca⁺ H, H α , H β and He D₃ Emission in Prominences
G. Stellmacher 61, 61
- Prominences at Centimetric and Millimetric Wavelengths. I: Size and Spectrum of the Radio Filaments
A. Raoult, P. Lantos, and E. Fürst 61, 335
- The Structure of Coronal Arcades and the Formation of Solar Prominences
E. R. Priest and E. A. Smith 64, 267

Dynamics of Flare Sprays

E. Tandberg-Hanssen, Sara F. Martin, and Richard T. Hansen 65, 357

Prominences at Centimetric and Millimetric Wavelengths. II: Radio Diagnostic of the Prominences

P. Lantos and A. Raoult 66, 275

Thermodynamic Models and Fine Structure of Prominences

O. Engvold 67, 351

The Corona Associated with Solar Filaments

Robert D. Chapman 71, 151

Simultaneous Measurements of the Polarization in $H\alpha$ and D_3 Prominence Emissions

Jean-Louis Leroy 71, 285

Observations of Solar Filaments at 8, 15, 22 and 43 GHz

E. J. Schmahl, M. Bobrowsky, and M. R. Kundu 71, 311

The Development of X-Ray Flare Onsets near Active Region Filaments

S. W. Kahler 71, 337

The He I 10830 Å Chromosphere and Filament-Associated Structures

Marie K. McCabe and D. L. Mikey 73, 59

Kinematical Analysis of Flare Spray Ejecta Observed in the Corona

D. F. Webb and B. V. Jackson 73, 341

Evidence for a Poleward Meridional Flow on the Sun

Ken Topka, Ron Moore, Barry J. LaBonte, and Robert Howard 79, 231

The Determination of Vector Magnetic Fields in Prominences from the Observations of the Stokes Profiles in the

D_3 Line of Helium

Egidio Landi Degl'Innocenti 79, 291

Vector Magnetic Fields in Prominences. I: Preliminary Discussion of Polarimeter Observations in He I D_3

Lewis L. House and Raymond N. Smartt 80, 53

Impulsive Brightenings and Velocity Transients in Prominences. I: Large Events

J. M. Malville and G. D. Toot 80, 279

Measurements of the Magnetic Field in Solar Prominences with a Spectrally Scanning Magnetograph

G. M. Nikolsky, I. S. Kim, and S. Koutchmy 81, 81

The Growth of Filaments by the Condensation of Coronal Arches

John M. Davis and Allen S. Krieger 81, 325

The Properties of Coronal Voids

R. M. MacQueen, D. G. Sime, and J.-P. Picat 83, 103

An Observation of Prominence Condensation out of a Coronal Void

W. J. Wagner, G. Newkirk, Jr., and H. U. Schmidt 83, 115

The Formation of Prominences by Thermal Instability: A Numerical Study

Stephen F. Mason and R. J. Bessey 83, 121

The Magnetic Field in the Prominences of the Polar Crown

J. L. Leroy, V. Bommier, and S. Sahal-Bréchet 83, 135

A Comparison of High-Energy Events in the Quiet Sun with Solar Flares

G. E. Brueckner 86, 259

Kinematics of Solar Prominences

J. L. Ballester and J. Kleczek 87, 261

The Formation of Solar Prominences by Magnetic Reconnection and Condensation

G. W. Pneuman 88, 219

Vector Magnetic Fields in Prominences. III: He I D_3 Stokes Profile Analysis for Quiescent and Eruptive Prominences

R. Grant Athay, Charles W. Querfeld, Raymond N. Smartt, Egidio Landi Degl'Innocenti, and Veronique Bommier 89, 3

Alfvén Waves and Turbulence in Quiescent Prominences

Eberhart Jensen 89, 275

Prominence Motions and Their Implications for Magnetic Fields

J. L. Ballester and J. Kleczek 90, 37

Rotation in Prominences

M. Liggett and H. Zirin 91, 259

The Magnetic Non-Equilibrium of Buoyant Flux Tubes in the Solar Corona

P. K. Browning and E. R. Priest 92, 173

Permanent Changes in Filaments near Solar Flares

David M. Rust **93**, 73

Do Prominences Migrate Equatorwards?

V. I. Makarov **93**, 393

A Note on Magnetic Fields and Electric Currents in Solar Prominences

J. L. Ballester **94**, 151

Oscillations of the $H\alpha$ Emission in Solar Prominences

E. Wiehr, G. Stellmacher, and H. Balthasar **94**, 285

The Oscillating Loop Prominence of July 17, 1981

B. Vrsnak **94**, 289

Evolution of Rising Helical Prominences in a Nonuniform Atmosphere

G. W. Pneuman **94**, 299

Association of Type II Solar Radio Bursts with Coronal Structures above $H\alpha$ Filament Channels

R. T. Stewart **94**, 379

The Behaviour of Prominence Areas in the 11-Year-Cycle and Their Relationship with Other Solar Events

M. N. Gnevyshev and V. I. Makarov **95**, 189

Remarks on the Magnetic Support of Quiescent Prominences

U. Anzer and E. Priest **95**, 263

Evidence for Systematic Flows in the Transition Region around Prominences

O. Engvold, E. Tandberg-Hanssen, and E. Reichmann **96**, 35

Vector Magnetic Fields in Prominences. II: He I D_3 Stokes Profiles Analysis for Two Quiescent Prominences

Charles W. Querfeld, Raymond N. Smartt, Veronique Bomnier, Egidio Landi Degl'Innocenti, and Lewis L. House **96**, 277

Polarization of the Sodium D Lines in Prominences

M. Landolfi and E. Landi Degl'Innocenti **98**, 53

The Solar Causes of Geomagnetic Disturbances

V. P. Mikhailutsa and M. N. Gnevyshev **98**, 387

Modern Observation of Solar Prominences (*Invited Review Paper*)

Tadashi Hirayama **100**, 415

Prominences, Active
Electron Density in Flares. I: Discussion of the Halfwidth Method

Z. Švestka and L. Fritzová-Švestková **2**, 75

On Arch-Filament Systems in Spotgroups

A. Bruzek **2**, 451

The Magnetic Field in Some Prominences Measured with the He I, 5876 Å Line

J. W. Harvey and E. Tandberg-Hanssen **3**, 316

Magnetic Fields in Two Active Prominences

J. McKim Malville **5**, 236

Magnetic Fields in Flares and Active Prominences. I: The Flares in Active Region McMath No. 8818, May 21 and 23, 1967

J. McKim Malville and E. Tandberg-Hanssen **6**, 278

Splintering Loop Prominences

J. Kleczek **7**, 238

Motions in Arch Filament Systems

A. Bruzek **8**, 29

Observations of Rotational Motion in Prominences

Yngve Öhman **9**, 427

The Development and Flaring of an Active Region Exhibiting Unusual Magnetic Structure. II: Active Regions

Peter Foukal **13**, 330

Measurements of Line-of-Sight Velocities in Prominences

Ludwik Liszka **14**, 354

Fine-Scan Velocity and Magnetic-Field Measurements in Solar Active Regions

A. Bhatnagar **16**, 40

Morphological Relationships in the Chromospheric $H\alpha$ Fine Structure

Peter Foukal **19**, 59

- On the Topology of Filaments and Chromospheric Fibrils near Sunspots
Y. Nakagawa, M. A. Raadu, D. E. Billings, and D. McNamara 19, 72
- A Note on Chromospheric Fine Structure at Active Region Polarity Boundaries
Stephen W. Prata 20, 310
- Observation of a Smoke Ring on October 30, 1970
Ichiro Kawaguchi, Nobuyuki Oda, and Shun Mizuno 22, 140
- On the Relation between Filaments (Prominences) and $H\alpha$ Loops
A. Bruzek 24, 118
- The Magnetic Structure of Arch Filament Systems
Edward N. Frazier 26, 130
- On the Aller's Admixture Radiation Effect during the Compression Process in the Solar Corona and Generation of Coronal Formations
R. E. Guseinov 28, 457
- Observations of an Active Limb Prominence in the $H\beta$ Line
Jean Burns 29, 403
- Coronal Prominences on the Disk Observed on 29 October 1972
Ichiro Kawaguchi and Reizaburo Kitai 33, 145
- Association of Solar Prominences and Coronal Magnetic Sheets from Their Observed Correlation with Type III Radiobursts
C. Mercier 33, 177
- First Phase of Active Regions and Their Relation to the Chromospheric Network
R. Born 38, 127
- The Brightening of Sunspot Umbra Observed on 29 October, 1972
Jun Kubota, Tatsuo Tamenaga, Ichiro Kawaguchi, and Reizaburo Kitai 38, 389
- Magnetic Fields in Flares and Active Prominences. II: The Field Configuration in Some Active Prominences
E. Tandberg-Hanssen and J. McKim Malville 39, 107
- EUV Emission, Filament Activation and Magnetic Fields in a Slow-Rise Flare
David M. Rust, Y. Nakagawa, and W. M. Neupert 41, 397
- Discussion on the Coronal Structure Related to Type III Bursts
M. Pick, M.-J. Martres, F. Axisa, and C. Mercier 42, 461
- The Work of the Diode Array: He 10830 Observations of Spicules and Subflares
David M. Rust and Charles A. Bridges III 43, 129
- Spatial Correlation of $H\alpha$ Filaments and Photospheric Velocity
M.-J. Martres, J. Rayrole, and I. Soru-Escaut 46, 137
- Pre-Flare Energy Storage (*Title only*)
A. Bruzek 47, 215
- Evolution of Fibrils with Special Reference to Flare Activity
Katsuo Tanaka 47, 247
- The Fine Structure of Prominences. II: Vertical Flux Ropes and Filamentary Structure
J. McKim Malville 50, 79
- Two 'Negative Bursts' with Moving Filaments, 19 May 1969
C. Sawyer 51, 195 *Erratum* 54, 516
- Are 'Negative Bursts' Due to Absorption?
C. Sawyer 51, 203
- The Fine Structure of Prominences. III: Small Scale Doppler Shifted Features
O. Engvold and J. McKim Malville 52, 369
- Kinematic Model of Loop Prominences Formation
L. N. Ivanov and Yu. V. Platov 54, 35
- Multi-Channel Subtractive Spectrograph and Filament Observations
P. Mein 54, 45
- Profiles of H I ($\text{L}\alpha$), Mg II (h and k), Ca II (H and K) Lines of an Active Filament at the Limb, with the LPSP Instrument aboard the OSO-8 Satellite
I. C. Vial, P. Gouttebroze, G. Artzner, and P. Lemaire 61, 39
- Impulsive EUV Bursts Observed in CIV with OSO-8
R. Grant Athay, O. R. White, B. W. Lites, and E. C. Bruner, Jr. 66, 357

- O VI ($\lambda = 1032 \text{ \AA}$) Profiles in and above an Active Region Prominence, Compared to Quiet Sun Center and Limb Profiles
J. C. Vial, P. Lemaire, G. Artzner, and P. Gouttebroze **68**, 187
- Steady Flows in the Chromosphere and Transition-Zone above Active Regions as Observed by OSO-8
Bruce W. Lites **68**, 327
- Coronal Loops and Active Region Structure
D. F. Webb and H. Zirin **69**, 99
- Measurements of the Magnetic Field in Solar Prominences with a Spectrally Scanning Magnetograph
G. M. Nikolsky, I. S. Kim, and S. Koutchmy **81**, 81
- EUV Arcades: Signatures of Filament Instability
E. J. Schmahl, Z. Mouradian, M.-J. Martres, and I. Soru-Escout **81**, 91
- On the Intensity Ratio of Emission Lines of Na I D₁ to D₂ in Prominences
Yoshinobu Nikaidou and Ichiro Kawaguchi **84**, 49
- Brightening Phenomena in Prominences at the Center of the H α Line
Ichiro Kawaguchi, Yoshihiro Nikai, Yasuhiro Funakoshi, and Kap-Sung Kim **91**, 87
- The Coronal Disturbance (W90°, N25°) in the Eclipse Spectra of July 31, 1981
K. I. Nikolskaya and V. G. Utrobin **91**, 141

Prominences, Classification (*see Prominences*)

Prominences, Dynamics

- Observations of a Flare Spray at the Solar Limb on July 11, 1966
Y. Öhman, G. Stiber, and U. Kusoffsky **1**, 60
- A Spectacular Activation of a Prominence on March 25, 1967
O. Gimse and G. Hosinsky **2**, 192
- On Arch-Filament Systems in Spotgroups
A. Bruzek **2**, 451
- Motions and Magnetic Fields in Quiescent Prominences
J. McKim Malville **4**, 323
- A Remarkable Eruptive Prominence on the Solar Disk on January 29, 1968
C. J. Macris **5**, 361
- Photométries comparées des émissions de l'hydrogène et de l'hélium dans les régions externes des protubérances
Jean-Louis Leroy **7**, 221
- Splintering Loop Prominences
J. Kleczek **7**, 238
- Two Prominence Eruptions and the Problem of Emission
Harold Zirin **7**, 243
- Motions in Arch Filament Systems
A. Bruzek **8**, 29
- Observations of Rotational Motion in Prominences
Yngve Öhman **9**, 427
- Motion of Ascending Prominences
H. Westin and L. Liszka **11**, 409
- H α Doppler Brightening and Lyman- α Doppler Dimming in Moving H α Prominences
Charles L. Hyder and Bruce W. Lites **14**, 147
- H α Coronagraph Observations of a Flare Spray, March 1, 1969
Marie K. McCabe and R. R. Fisher **14**, 212
- Measurements of Line-of-Sight Velocities in Prominences
Ludwik Liszka **14**, 354
- Solar Rotation: Direct Evidence from Prominences for a Westward Wind
W. Livingston **19**, 379
- Mass Motions in a Flare Spray
Marie K. McCabe **19**, 451
- High Dispersion Spectroscopic Study of Quiescent Prominences
O. Engvold and W. Livingston **20**, 375
- Observation of a Smoke Ring on October 30, 1970
Ichiro Kawaguchi, Nobuyuki Oda, and Shun Mizuno **22**, 140

Remark on Rotational Motions in Flares and Prominences

Yngve Öhman 23, 134

Macroscopic Motions in Prominences. I: The Prominence of 26th March, 1971

Marcus E. Machado and Hugo Grossi Gallegos 23, 340

The Internal Motion of Quiescent Prominences

Oddbjørn Engvold 23, 346

Analysis of Two Active Prominences

Marcos E. Machado 23, 353

The Limb Flare of August 11, 1972

M. Waldmeier 30, 129

Macroscopic Motions in Prominences. II: Optical Pairs and Interacting Prominences

Hugo Grossi Gallegos and Marcos E. Machado 31, 427

Coronal Prominences on the Disk Observed on 29 October 1972

Ichiro Kawaguchi and Reizaburo Kitai 33, 145

The Coronal Disturbance of 1972, August 12

Anthony C. Riddle, Einar Tandberg-Hanssen, and Richard T. Hansen 35, 171

An Eruptive Prominence of June 10, 1973

O. Engvold and B. M. Rustad 35, 409

Spectral Features to be Expected from Rotational and Expansional Motions in Fine Solar Structures

B. Rompolt 41, 329

Evidence for Downflow Following a Coronal Transient?

E. Hildner and W. C. Livingston 42, 391

Partial Analysis of the Flare-Prominence of 30 April 1974

S. T. Wu, Murray Dryer, Patrick S. McIntosh, and Edwin Reichmann 44, 117

A Distinctive Type of Ascending Prominence - 'Fountain'

E. Tandberg-Hanssen, R. T. Hansen, and A. C. Riddle 44, 417

Prominence Eruption Accompanied by Twist Readjustment

K. Jockers and O. Engvold 44, 429

The Sources of Material Comprising a Mass Ejection Coronal Transient

E. Hildner, J. T. Gosling, R. T. Hansen, and J. D. Bohlin 45, 363

 $H\alpha$ Contrast Profiles of Filament FeaturesP. Maltby 46, 149 *Erratum/Replacement Figures: Figs. 1, 2, 3, 4(a) - 53, 547*

The Eruptive Prominence of June 8, 1974

O. Engvold, J. McKim Malville, and B. M. Rustad 48, 137

Observations of a Surge Prominence as a Continuum Event

J. René Roy 48, 149

The Fine Structure of Prominences. I: Observations - $H\alpha$ Filtergrams

Oddbjørn Engvold 49, 283

The Fine Structure of Prominences. II: Vertical Flux Ropes and Filamentary Structure

J. McKim Malville 50, 79

The Growth of Electric Current in the Eruptive Prominence of June 8, 1974

J. McKim Malville 50, 395

High Dispersion Spectroscopy of Quiescent Prominences. II: Vertical Structure of the Line-of-Sight Velocity Field

Lawrence W. Ramsey 51, 307

The Fine Structure of Prominences. III: Small Scale Doppler Shifted Features

O. Engvold and J. McKim Malville 52, 369

Multi-Channel Subtractive Spectrograph and Filament Observations

P. Mein 54, 45

Coronal Mass-Ejections-Kinematics of the 19 December 1973 Event

E. Schmahl and E. Hildner 55, 473

Configuration and Gradual Dynamics of Prominence-Related X-Ray Coronal Cavities

S. Serio, G. S. Vaiana, G. Godoli, S. Motta, V. Pirronello, and R. A. Zappalà 59, 65

The Fine Structure of Prominences. V.: Active Edges of Quiescent Prominences

O. Engvold, J. M. Malville, and W. Livingston 60, 57

- An Investigation of Macroscopic Motions Using the Ca^+ Lines in the Prominence of 15 October 1969
M. Sh. Gigolashvili **60**, 293
- Profiles of H I ($\text{L}\alpha$), Mg II (h and k), Ca II (H and K) Lines of an Active Filament at the Limb, with the LPSP Instrument aboard the OSO-8 Satellite
I. C. Vial, P. Gouttebroze, G. Artzner, and P. Lemaire **61**, 39
- Kinematics of a Loop Prominence
O. Engvold, E. Jensen, and B. N. Andersen **62**, 331
- Dynamics of Flare Sprays
E. Tandberg-Hanssen, Sara F. Martin, and Richard T. Hansen **65**, 357
- Motions in a Loop Prominence
M. M. Makhmudov, G. M. Nikolsky, and Yu. D. Zhugzhda **66**, 89
- Structure and Evolution of Velocities in Quiescent Filaments
M.-J. Martres, P. Mein, B. Schmieder, and I. Soru-Escaut **69**, 301
- Oscillations of a Loop Prominence Preceding a Limb Flare
J. McKim Malville and Mark Schindler **70**, 115
- The Small Scale Velocity Field of a Quiescent Prominence
O. Engvold **70**, 315
- On the Branching in the Emission Relations of Ca^+ in Prominences
G. Stellmacher and E. Wiehr **71**, 299
- Kinematical Analysis of Flare Spray Ejecta Observed in the Corona
D. F. Webb and B. V. Jackson **73**, 341
- Observed Mass Motions in Limb Prominences
Andries H. Lategan and A. H. Jarrett **76**, 323
- Fine Structure of Motions in a Quiescent Prominence
M. Sh. Gigolashvili and Yu. D. Zhugzhda **77**, 95
- Velocity Fields in Quiescent Prominences
Eberhart Jensen **77**, 109
- Na I D Brightening Phenomena in Quiescent Prominences
Yoshinobu Nikaidou **80**, 259
- Impulsive Brightenings and Velocity Transients in Prominences. I: Large Events
J. M. Malville and G. D. Toot **80**, 279
- The H α -Cyclonic Spectra of a Flare Loop System on 1981 April 27
X. M. Gu, B. S. Li, Y. J. Ding, S. C. Li, and Z. Li **87**, 155
- Kinematics of Solar Prominences
J. L. Ballester and J. Kleczek **87**, 261
- Prominence Motions and Their Implications for Magnetic Fields
J. L. Ballester and J. Kleczek **90**, 37
- Brightening Phenomena in Prominences at the Center of the H α Line
Ichiro Kawaguchi, Yoshihiro Nikai, Yasuhiro Funakoshi, and Kap-Sung Kim **91**, 87
- Oscillatory Processes in Prominences
V. S. Bashkirtsev and G. P. Mashnich **91**, 93
- Rotation in Prominences
M. Liggett and H. Zirin **91**, 259
- Preflare Activity of Solar Prominences
G. Simon, N. Mein, P. Mein, and L. Gesztelyi **93**, 325
- Evolution of Rising Helical Prominences in a Nonuniform Atmosphere
G. W. Pneuman **94**, 299
- Evidence for Systematic Flows in the Transition Region around Prominences
O. Engvold, E. Tandberg-Hanssen, and E. Reichmann **96**, 35
- The Kinematic Processes in Solar Prominences and Flares and Their Spectral Features
Ye Shi-Hui and Jin Jie-Hai **96**, 113
- Modern Observations of Solar Prominences (*Invited Review Paper*)
Tadashi Hirayama **100**, 415

Prominences, Eruptive

- A Phenomenological Model for *Disparitions Brusques* Followed by Flarelike Chromospheric Brightenings. I: The Model, Its Consequences, and Observations in Quiet Solar Regions
Charles L. Hyder **2**, 49 *Rectification 2, 505 and Corrigenda 3, 624*

- A Spectacular Activation of a Prominence on March 25, 1967
O. Gimse and G. Hosinsky 2, 192
- A Phenomenological Model for *Disparitions Brusques* Followed by Flarelike Chromospheric Brightenings. II: Observations in Active Regions
Charles L. Hyder 2, 267 *Rectification* 2, 505 and *Corrigenda* 3, 624
- A Remarkable Eruptive Prominence on the Solar Disk on January 29, 1968
C. J. Macris 5, 361
- The Solar Flares of August 28 and 30, 1966
Harold Zirin and D. Russo Lackner 6, 86
- Two Prominence Eruptions and the Problem of Emission
Harold Zirin 7, 243
- Motion of Ascending Prominences
H. Westin and L. Liszka 11, 409
- Sudden Disappearance of a Large Quiescent Prominence on the Solar Disk, April 28, 1967
Marie McCabe 12, 115
- 80 MHz Observations of a Moving Type IV Solar Burst, March 1, 1969
A. C. Riddle 13, 448
- H α Doppler Brightening and Lyman- α Doppler Dimming in Moving H α Prominences
Charles L. Hyder and Bruce W. Lites 14, 147
- Strong Coronal Shocks and 'Thermal' Solar X-Ray Bursts
Charles L. Hyder 14, 196
- Remark on Rotational Motions in Flares and Prominences
Yngve Öhman 23, 134
- Analysis of Two Active Prominences
Marcos E. Machado 23, 353
- Comments on Filament-Disintegration and Its Relation to Other Aspects of Solar Activity
Helen W. Dodson, E. Ruth Hedeman, and Marta Rovira de Miceli 23, 360
- Centimeter Radiation Associated with the Solar Limb Prominence of 8 February 1972
M. B. Bell 27, 137
- The Evolution of Prominences and Their Relationship to Active Centers (*A Review*)
Sara F. Martin 31, 3
- Decrease of 2800 MHz Solar Radio Emission Associated with a Moving Dark Filament before the Flare of May 19, 1969
Arthur E. Covington 33, 439
- Theoretical Model of Flares and Prominences. I: Evaporating Flare Model
T. Hirayama 34, 323
- An Eruptive Prominence of June 10, 1973
O. Engvold and B. M. Rustad 35, 409
- Spectrograph, Filtergraph and Magnetograph Observations of the Two-Ribbon Flare of 29 July, 1973
A. G. Michalitsanos and P. Kupferman 36, 403
- Dynamic Response of an Isothermal Static Corona to Finite-Amplitude Disturbances
Y. Nakagawa, S. T. Wu, and E. Tandberg-Hanssen 41, 387
- EUV Emission, Filament Activation and Magnetic Fields in a Slow-Rise Flare
David M. Rust, Y. Nakagawa, and W. M. Neupert 41, 397
- The Large Coronal Transient of 10 June 1973. I: Observational Description
E. Hildner, J. T. Gosling, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 42, 163
- Slow X-Ray Bursts and Flares with Filament Disruption
Jean-René Roy and Frances Tang 42, 425
- Partial Analysis of the Flare-Prominence of 30 April 1974
S. T. Wu, Murray Dryer, Patrick S. McIntosh, and Edwin Reichmann 44, 117
- Prominence Eruption Accompanied by Twist Readjustment
K. Jockers and O. Engvold 44, 429
- Coronal Changes Associated with a Disappearing Filament
N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, R. Tousey, J. B. Smith, Jr., D. M. Speich, E. Tandberg-Hanssen, R. M. Wilson, A. C. De Loach, R. B. Hoover, and J. P. McGuire 45, 377

An Active Role for Magnetic Fields in Solar Flares (*Invited Paper*)David M. Rust **47**, 21**On Build-Up of Magnetic Energy in the Solar Atmosphere**Y. Nakagawa, R. S. Steinolfson, and S. T. Wu **47**, 193**Implications for Flare Build-Up and Heating from Observations Made by OSO-7** (*Extended abstract*)W. M. Neupert **47**, 217**The Eruptive Prominence of June 8, 1974**O. Engvold, J. McKim Malville, and B. M. Rustad **48**, 137**Coronal X-Ray Enhancements Associated with H α Filament Disappearances**D. F. Webb, A. S. Krieger, and D. M. Rust **48**, 159**Type II-IV Radio Bursts and Compact and Diffuse White-Light Clouds in the Outer Corona of December 14, 1971**Takeo Kosugi **48**, 339**Expansion of an X-Ray Coronal Arch into the Outer Corona**David M. Rust and Ernest Hildner **48**, 381**The Speeds of Coronal Mass Ejection Events**J. T. Gosling, E. Hildner, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross **48**, 389**The Growth of Electric Current in the Eruptive Prominence of June 8, 1974**J. McKim Malville **50**, 395**Two 'Negative Bursts' with Moving Filaments, 19 May 1969**C. Sawyer **51**, 195 *Erratum 54, 516***Prominence Mass Ejections and Their Effects on the Corona. I: The Eruptive Prominence of 21 August 1973 and the Surge of 4 December 1973**J. B. Smith, Jr., D. M. Speich, R. M. Wilson, E. Tandberg-Hanssen, and S. T. Wu **52**, 379**3.5 mm Depression Features Associated with H α 'Disparitions Brusques'**M. R. Kundu and P. Lantos **52**, 393**Soft X-Ray Observations of Large-Scale Coronal Active Region Brightenings**David M. Rust and David F. Webb **54**, 403**Coronal Mass-Ejections-Kinematics of the 19 December 1973 Event**E. Schmahl and E. Hildner **55**, 473**The Decay of Coronal Loops Brightened by Flares and Transients**Allen S. Krieger **56**, 107**A Theory of the Onset of Solar Eruptive Processes**J. Birn, H. Goldstein, and K. Schindler **57**, 81**The Association of Nonthermal Electrons with Non-Flaring Coronal Transients**D. F. Webb and M. R. Kundu **57**, 155**The Association of Coronal Mass Ejection Transients with Other Forms of Solar Activity**R. H. Munro, J. T. Gosling, E. Hildner, R. M. MacQueen, A. I. Poland, and C. L. Ross **61**, 201**Slowly Moving Disturbances in the X-Ray Corona**David M. Rust and Z. Švestka **63**, 279**Kink Instability of Solar Coronal Loops as the Cause of Solar Flares**A. W. Hood and E. R. Priest **64**, 303**Eruptive Prominences and Coronal Transients**G. W. Pneuman **65**, 369**Motions in the Solar Atmosphere Associated with the White Light Flare of 11 July 1978**L. Dezső, Lidia Gesztelyi, L. Kondás, Ágnes Kovács, and S. Rostás **67**, 317**Preflare Conditions, Changes and Events** (*Invited Review Paper*)Sara F. Martin **68**, 217**The Eruption of Active Region Filaments and Its Relation to the Triggering of a Solar Flare**M. Kuperus and W. van Tend **71**, 125**The Development of X-Ray Flare Onsets near Active Region Filaments**S. W. Kahler **71**, 337**Thermal Nonequilibrium: A Trigger for Solar Flares?**A. W. Hood and E. R. Priest **73**, 289**EUV Arcades: Signatures of Filament Instability**E. J. Schmahl, Z. Mouradian, M.-J. Martres, and I. Soru-Escut **81**, 91

- A White-Light/Fe X/H α Coronal Transient Observation to 10 Solar Radii
W. J. Wagner, R. M. E. Illing, C. B. Sawyer, L. L. House, N. R. Sheeley, Jr., R. A. Howard, M. J. Koomen, D. J. Michels, R. N. Smartt, and M. Dryer **83**, 153
- A Large Proton Event Associated with Solar Filament Activity
B. Sanahuja, V. Domingo, K.-P. Wenzel, J. A. Joselyn, and E. Keppler **84**, 321
- Positional Measurements on the Eruptive Prominence of 27 April and Comparison with the X-Ray Sources
Li Su-Cuan and Cao Tian-Jun **86**, 197
- Dynamical Interpretation of the Very Hot Region Appearing at the Top of a Loop
Kazunari Shibata, Yutaka Uchida, and Takashi Sakurai **86**, 345
- Kinematics of Solar Prominences
J. L. Ballester and J. Kleczek **87**, 261
- The Relationships between Disappearing Solar Filaments, Coronal Mass Ejections, and Geomagnetic Activity
C. S. Wright and L. F. McNamara **87**, 401
- A Model of 'Disparitions Brusques' (Sudden Disappearances of Eruptive Prominences) as an Instability Driven by MHD Waves
J. Sakai and K.-I. Nishikawa **88**, 241
- Vector Magnetic Fields in Prominences. III: He I D₃ Stokes Profile Analysis for Quiescent and Eruptive Prominences
R. Grant Athay, Charles W. Querfeld, Raymond N. Smartt, Egidio Landi Degl'Innocenti, and Veronique Bommier **89**, 3
- The Kinematics of Solar Inner Coronal Transients
R. M. MacQueen and R. R. Fisher **89**, 89
- He I 10830 Observations of the 3N/M4.0 Flare of 4 September, 1982
Karen L. Harvey and Frank Recely **91**, 127
- The Magnetic Non-Equilibrium of Buoyant Flux Tubes in the Solar Corona
P. K. Browning and E. R. Priest **92**, 173
- Preflare Activity of Solar Prominences
G. Simon, N. Mein, P. Mein, and L. Gesztelyi **93**, 325
- Analysis of the Magnetic Field Configuration of a Filament-Associated Flare from X-Ray, UV, and Optical Observations
Chung-Chieh Cheng and R. Pallavicini **93**, 337
- Geomagnetic Disturbances Associated with Disappearing Solar Filaments
J. Hanumath Sastri, K. B. Ramesh, and J. V. S. V. Rao **98**, 177
- Prominences, Evolution (*see Prominences*)**
- Prominences, Formation (*see Prominences*)**
- Prominences, Loop**
- The Proton Flare of August 28, 1966
Helen W. Dodson and E. Ruth Hedeman **4**, 229
- Soft Solar X-Rays and Solar Activity. III: Loop Prominences with Soft X-Ray Emission
Richard G. Teske **17**, 76
- Thermal Effects in the Formation of Loop Prominences
D. W. Goldsmith **19**, 86
- The Helium Radiation in Prominences
N. A. Yakovkin and M. Yu. Zeldina **19**, 414
- On the Abundance of Calcium in the Solar Corona
Richard R. Fisher **19**, 431
- On the Distribution of Material as a Function of Temperature in the Post-Flare Loop System of 12 August 1970
Richard R. Fisher **19**, 440
- The 1-55 Å X-Ray Emission from an Active Limb Prominence
A. C. Brinkman and M. L. Shaw **23**, 120
- On the Relation between Filaments (Prominences) and H α Loops
A. Bruzek **24**, 118
- Ionized Helium in Prominences and in the Chromosphere
Tadashi Hirayama **24**, 310
- The Loop Prominence of May 13, 1971 and Its Associated Effects
M. E. Machado, H. Grossi Gallegos, and A. F. Silva **25**, 402

The Magnetic Configuration of the November 18, 1968 Loop Prominence System

J.-René Roy **26**, 418

Filter Observations of Prominences in the D_3 and $H\alpha$ Lines

I. S. Kim and G. M. Nikolsky **28**, 377

The Limb Flare of August 11, 1972

M. Waldmeier **30**, 129

Spatial Relationship between $\lambda 5303$ and $H\alpha$ Components of a Loop Prominence System

Marie K. McCabe **30**, 439

On the Mechanism of Formation of Loop Prominences

Bibhas R. De **31**, 437 *Erratum 33, 262*

The Flares of August 1972

Harold Zirin and Katsuo Tanaka **32**, 173

Force-Free Magnetic Fields and Flares of August 1972

K. Tanaka and Y. Nakagawa **33**, 187

Magnetic Fields, Loop Prominences and the Great Flares of August, 1972

David M. Rust and Varda Bar **33**, 445

The Loop Prominence of 11 August 1972: A Coronal Continuum Event

R. R. Fisher **35**, 401

Magnetic Reconnection in the Corona and the Loop Prominence Phenomenon

R. A. Kopp and G. W. Pneuman **50**, 85

A Model for X-Ray Emission from Loop Prominences

K. J. H. Phillips and J. B. Zirker **53**, 41

The Primary Energy Release and Subsequent Flare Development, Discussion 1

Z. Švestka **53**, 281

Kinematic Model of Loop Prominences Formation

L. N. Ivanov and Yu. V. Platov **54**, 35

The Structure of Coronal Magnetic Loops. I: Equilibrium Theory

Claudio Chiuderi, Riccardo Giachetti, and Gerard Van Hoven **54**, 107

A Loop Prominence System Observed on May 24, 1972

Muammer Dizer **59**, 357

Physical Parameters in Long-Decay Coronal Enhancements

W. J. MacCombie and D. M. Rust **61**, 69

A Single Loop of 21 January 1974 Flare

Eijiro Hiei and Kenneth G. Widing **61**, 407

Study of the Post-Flare Loops on 29 July 1973. I: Dynamics of the X-Ray Loops

J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. D. Petrasso, and Z. Švestka **62**, 123

Study of the Post-Flare Loops on 29 July 1973. II: Physical Parameters in the X-Ray Loops

R. D. Petrasso, J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. Krogstad, F. H. Seguin, and Z. Švestka **62**, 133

Kinematics of a Loop Prominence

O. Engvold, E. Jensen, and B. N. Andersen **62**, 331

Study of the Post-Flare Loops on 29 July 1973. III: Dynamics of the $H\alpha$ Loops

Sara F. Martin **64**, 165

Spatial Distribution of XUV Emission and Density in a Loop Prominence

Chung-Chieh Cheng **65**, 347

Coronal Heating by Prominence Turbulence

W. van Tend **66**, 29

Motions in a Loop Prominence

M. M. Makhmudov, G. M. Nikolsky, and Yu. D. Zhugzhda **66**, 89

Oscillations of a Loop Prominence Preceding a Limb Flare

J. McKim Malville and Mark Schindler **70**, 115

The Impulsive and Gradual Phases of a Solar Limb Flare as Observed from the Solar Maximum Mission Satellite

A. I. Poland, M. E. Machado, C. J. Wolfson, K. J. Frost, B. E. Woodgate, R. A. Shine, P. J. Kenny, C. C. Cheng, E. A. Tandberg-Hanssen, E. C. Bruner, and W. Henze **78**, 201

Study of the Post-Flare Loops on 29 July 1973. IV: Revision of T and n_e Values and Comparison with the Flare of 21 May 1980

Z. Švestka, H. W. Dodson-Prince, S. F. Martin, O. C. Mohler, R. L. Moore, J. T. Nolte, and R. D. Petrasso **78**, 271

Dynamics of Post-Flare Ejections and Magnetic Loop Geometry

Pierre Mein and Nicole Mein 80, 161

Electric Fields in Coronal Magnetic Loops

P. Foukal, P. Miller, and L. Gilliam 83, 83

Hydrodynamics of Flaring Loops: SMM Observations and Numerical Simulations

R. Pallavicini and G. Peres 86, 147

Observation of the Flare of 12 June 1982 by Norikura Coronagraph and HINOTORI

E. Hiei, T. Okamoto, and K. Tanaka 86, 185

The H α -Cyclonic Spectra of a Flare Loop System on 1981 April 27

X. M. Gu, B. S. Li, Y. J. Ding, S. C. Li, and Z. Li 87, 155

Mass Upflows in 'Post'-Flare Loops

T. G. Forbes and E. R. Priest 88, 211

High-Resolution Photograph of the Solar Chromosphere. XVIII: Axial Tilt of H α Loops Observed on the Disk

R. E. Loughhead, Chen Chuan-Le, and Wang Jia-Long 92, 53

The Oscillating Loop Prominence of July 17, 1981

B. Vrsnak 94, 289

21 May 1980 Flare Review (*Invited Review Paper*)

Cornelis de Jager and Zdeněk Švestka 100, 435

Prominences, Magnetic Fields (*see Prominences*)**Prominences, Models****The Nature of Quiescent Solar Prominences**

Max Kuperus and Einar Tandberg-Hanssen 2, 39

A Phenomenological Model for *Disparitions Brusques* Followed by Flarelike Chromospheric Brightenings. I:

The Model, Its Consequences, and Observations in Quiet Solar Regions

Charles L. Hyder 2, 49 *Rectification 2, 505 and Corrigenda 3, 624***Electron Density in Flares. I: Discussion of the Halfwidth Method**

Z. Švestka and L. Fritzová-Švestková 2, 75

A Phenomenological Model for *Disparitions Brusques* Followed by Flarelike Chromospheric Brightenings. II:

Observations in Active Regions

Charles L. Hyder 2, 267 *Rectification 2, 505 and Corrigenda 3, 624***Oscillatory Phenomena in Quiescent Prominences**

J. Kleczek and M. Kuperus 6, 72

Stability Analysis of the Kippenhahn-Schlüter Model of Solar Filaments

U. Anzer 8, 37

Periodic Structures in Quiescent Prominences

Y. Nakagawa and J. McKim Malville 9, 102

A Model for Quiescent Prominences with Helical Structure

Ulrich Anzer and E. Tandberg-Hanssen 11, 61

Thermal and Dynamical Stability of Prominences

Y. Nakagawa 12, 419

Solar Active Regions at Millimeter Wavelengths

M. R. Kundu 13, 348

Origin of Quiescent Prominences

S. B. Pikel'ner 17, 44

Spectral Analysis of Four Quiescent Prominences Observed at the Peruvian Eclipse

Tadashi Hirayama 17, 50

Hydrogen Ionization and $n = 2$ Population for Model Spicules and Prominences

A. Poland, A. Skumanich, R. G. Athay, and E. Tandberg-Hanssen 18, 391

Thermal Effects in the Formation of Loop Prominences

D. W. Goldsmith 19, 86

Energy Balance in Cool Quiescent Prominences

A. Poland and U. Anzer 19, 401

The Helium Radiation in Prominences

N. A. Yakovkin and M. Yu. Zeldina 19, 414

On the Distribution of Material as a Function of Temperature in the Post-Flare Loop System of 12 August 1970

Richard R. Fisher 19, 440

- Radio Observations of Filaments during the Eclipses of September 11, 1969 and March 7, 1970
M. Simon and Bengt-Arne Wickström 20, 122
- Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico
G. M. Nikolsky, R. A. Gulyaev, and K. I. Nikolskaya 21, 332
- The 1-55 Å X-Ray Emission from an Active Limb Prominence
A. C. Brinkman and M. L. Shaw 23, 120
- Ionized Helium in Prominences and in the Chromosphere
Tadashi Hirayama 24, 310
- A Method to Calculate Electric Currents in Quiescent Prominences
Ulrich Anzer 24, 324
- On the Line Intensity Ratios $E(H\alpha)/E(D3)$ and $E(H\beta)/E(D3)$ in Prominences
G. Stellmacher 25, 104
- Observations of Prominences at 3.5 Millimeter Wavelength
M. R. Kundu 25, 108
- The Loop Prominence of May 13, 1971 and Its Associated Effects
M. E. Machado, H. Grossi Gallegos, and A. F. Silva 25, 402
- Emissions 'froides' dans la couronne solaire
Jean-Louis Leroy 25, 413
- Thermal Instability of Coronal Neutral Sheets and the Formation of Quiescent Prominences
M. A. Raadu and M. Kuperus 28, 77
- Filter Observations of Prominences in the D_3 and $H\alpha$ Lines
I. S. Kim and G. M. Nikolsky 28, 377
- Observations of an Active Limb Prominence in the $H\beta$ Line
Jean Burns 29, 403
- On the Mechanism of Formation of Loop Prominences
Bibhas R. De 31, 437 Erratum 33, 262
- Stationary Equations of Hydrogen Excitation and Ionization in Prominences
Ts. Chultem and N. A. Yakovkin 34, 133
- Determination of Electron Temperature of Quiescent Prominences by Hydrogen Lines
N. N. Morozhenko 34, 303
- On Intensity Ratios of Helium and Hydrogen Lines in Quiescent Prominences
N. N. Morozhenko 34, 313
- The Formation of Solar Quiescent Prominences by Condensation
E. Hildner 35, 123
- The Loop Prominence of 11 August 1972: A Coronal Continuum Event
R. R. Fisher 35, 401
- Solar Prominences in the Extreme Ultraviolet as Observed from the Apollo Telescope Mount
E. J. Schmahl, P. V. Foukal, M. C. E. Huber, R. W. Noyes, E. M. Reeves, J. G. Timothy, J. E. Vernazza, and G. L. Withbroe 39, 337
- Partial Analysis of the Flare-Prominence of 30 April 1974
S. T. Wu, Murray Dryer, Patrick S. McIntosh, and Edwin Reichmann 44, 117
- Study of a Filament with a Circularly Polarized Beam at 3.8 cm
Ronald M. Straka, Michael D. Papagiannis, and John A. Kogut 45, 131
- The Prominence Radiation Theory
N. A. Yakovkin and M. Yu. Zeldina 45, 319
- Studies of the Prominence-Corona Transition Zone from Rocket Ultraviolet Spectra of the March 1970 Eclipse
C. Y. Yang, R. W. Nicholls, and F. J. Morgan 45, 351
- Observations of a Surge Prominence as a Continuum Event
J. René Roy 48, 149
- The Fine Structure of Prominences. I: Observations - $H\alpha$ Filtergrams
Oddbjørn Engvold 49, 283
- The Fine Structure of Prominences. II: Vertical Flux Ropes and Filamentary Structure
J. McKim Malville 50, 79
- The Prominence-Corona Interface Compared with the Chromosphere-Corona Transition Region
Frank Q. Orrall and Edward J. Schmahl 50, 365

- A Study of the He $\lambda 10830$ Line Emission from Quiescent Prominences
Donald A. Landman 50, 383
- Température et microturbulence dans les régions externes des protubérances
Z. Mouradian et J. L. Leroy 51, 103
- The Ca II Emission Lines in Quiescent Prominences
J. N. Heasley, R. W. Milkey, and Oddbjørn Engvold 51, 315
- On Pikel'ner's Theory of Prominences
Oddbjørn Engvold and Eberhart Jensen 52, 37
- A Model for X-Ray Emission from Loop Prominences
K. J. H. Phillips and J. B. Zirker 53, 41
- A Self-Consistent Model of a Thermally Balanced Quiescent Prominence in Magnetostatic Equilibrium in a Uniform Gravitational Field
I. Lerche and B. C. Low 53, 385
- Kinematic Model of Loop Prominences Formation
L. N. Ivanov and Yu. V. Platov 54, 35
- The Structure of Coronal Magnetic Loops. I: Equilibrium Theory
Claudio Chiuderi, Riccardo Giachetti, and Gerard Van Hoven 54, 107
- A Study of Filament Transition Sheath from Radio Observations
A. Pramesh Rao and M. R. Kundu 55, 161
- The Filament-Corona Transition Region from OSO-VI EUV Observations
Franca Chiuderi Drago and Maurizio Silvi 55, 177
- Coronal Mass-Ejections-Kinematics of the 19 December 1973 Event
E. Schmahl and E. Hildner 55, 473
- Measurement of the Relative Intensities of He ζ -H8 Lines $\lambda 3889\text{\AA}$ in the Spectrum of the Chromospheric Spicules at Various Heights above the Limb
K. Nikolskaya 56, 71
- The Fine Structure of Prominences. IV: Spectral Observations
Oddbjørn Engvold 56, 87
- Radiation Transfer in Prominences with Filamentary Structure
N. N. Morozhenko 58, 47 *Errata* 62, 223
- The Development of Coronal Electric Current Systems in Active Regions and Their Relation to Filaments and Flares
W. van Tend and M. Kuperus 59, 115
- Simultaneous Measurements of Ca^+ K, Ca^+ H, $\text{H}\alpha$, $\text{H}\beta$ and He D₃ Emission in Prominences
G. Stellmacher 61, 61
- The Onset of Coronal Transients
W. van Tend 61, 89
- EUV Observations of Quiescent Prominences from Skylab
O. Kjeldseth Moe, J. W. Cook, and S. A. Mango 61, 319
- Prominences at Centimetric and Millimetric Wavelengths. I: Size and Spectrum of the Radio Filaments
A. Raoult, P. Lantos, and E. Fürst 61, 335
- Some Calculations Bearing on the Heating and Cooling of Quiescent Prominences
I. Lerche 63, 93
- A Prominence Model Based on Spectral Observations
J. M. Fontenla 64, 177
- The Structure of Coronal Arcades and the Formation of Solar Prominences
E. R. Priest and E. A. Smith 64, 267
- Spatial Distribution of XUV Emission and Density in a Loop Prominence
Chung-Chieh Cheng 65, 347
- Eruptive Prominences and Coronal Transients
G. W. Pneuman 65, 369
- Motions in a Loop Prominence
M. M. Makhmudov, G. M. Nikolsky, and Yu. D. Zhugzhda 66, 89
- Prominences at Centimetric and Millimetric Wavelengths. II: Radio Diagnostic of the Prominences
P. Lantos and A. Raoult 66, 275
- Cylindrical Prominences and the Magnetic Influence of the Photospheric Boundary
I. Lerche and B. C. Low 66, 285

- On the Equilibrium of a Cylindrical Plasma Supported Horizontally by Magnetic Fields in Uniform Gravity
I. Lerche and B. C. Low **67**, 229
- Thermodynamic Models and Fine Structure of Prominences
O. Engvold **67**, 351
- Analysis of Extreme-Ultraviolet Spectroheliograms of Solar Prominences
Mitsuo Kanno, George L. Withbroe, and Robert W. Noyes **69**, 313
- A Variational Approach to the Question of Temporal Stability of Equilibrium Models of Solar Prominences. I: The Formal Theory
I. Lerche and B. C. Low **69**, 327
- The Vertical Filamentary Structures of Quiescent Prominences
B. C. Low **75**, 119
- Na I D Brightening Phenomena in Quiescent Prominences
Yoshinobu Nikaidou **80**, 259
- The Growth of Filaments by the Condensation of Coronal Arches
John M. Davis and Allen S. Krieger **81**, 325
- Helium Radiation Diffusion in Prominences
N. A. Yakovkin, M. Yu. Zeldina, and Ch. Lhagvazhav **81**, 339
- The Formation of Prominences by Thermal Instability: A Numerical Study
Stephen F. Mason and R. J. Bessey **83**, 121
- On the Intensity Ratio of Emission Lines of Na I D₁ to D₂ in Prominences
Yoshinobu Nikaidou and Ichiro Kawaguchi **84**, 49
- Physical Conditions in a Quiescent Prominence Derived from UV Spectra Obtained with the UVSP Instrument on the SMM
A. I. Poland and E. Tandberg-Hanssen **84**, 63
- The Lyman Alpha Line in Solar Prominences
Juan Manuel Fontenla and Marta Rovira **85**, 141
- A Model of a Quiescent Prominence on the Basis of Studying the K Ca⁺ Line Fine Structure
M. Sh. Gigolashvili and Yu. D. Zhugzhda **87**, 43
- The Formation of Solar Prominences by Magnetic Reconnection and Condensation
G. W. Pneuman **88**, 219
- A Model of 'Disparitions Brusques' (Sudden Disappearances of Eruptive Prominences) as an Instability Driven by MHD Waves
J. Sakai and K.-I. Nishikawa **88**, 241
- Alfvén Waves and Turbulence in Quiescent Prominences
Eberhart Jensen **89**, 275
- Visible Coronal Emission Associated with a Quiescent Prominence
Raymond N. Smartt and Zhenda Zhang **90**, 315
- On the Excitation of Lower Levels of Singlet Helium in Quiescent Prominences
N. N. Morozhenko **92**, 153
- The Oscillating Loop Prominence of July 17, 1981
B. Vrsnak **94**, 289
- Evolution of Rising Helical Prominences in a Nonuniform Atmosphere
G. W. Pneuman **94**, 299
- Remarks on the Magnetic Support of Quiescent Prominences
U. Anzer and E. Priest **95**, 263
- Quiescent Prominence Threads Models
Juan Manuel Fontenla and Marta Rovira **96**, 53
- The Physics of Thermal Instability in Two Dimensions
L. Sparks and G. Van Hoven **97**, 283
- Modern Observations of Solar Prominences (*Invited Review Paper*)
Tadashi Hirayama **100**, 415

Prominences, Morphology (see Prominences)

Prominences, Quiescent

- The Nature of Quiescent Solar Prominences
Max Kuperus and Einar Tandberg-Hanssen **2**, 39

- The Magnetic Field in Some Prominences Measured with the He I, 5876 Å Line
J. W. Harvey and E. Tandberg-Hanssen 3, 316
- Motions and Magnetic Fields in Quiescent Prominences
J. McKim Malville 4, 323
- Oscillatory Phenomena in Quiescent Prominences
J. Kleczek and M. Kuperus 6, 72
- Periodic Structures in Quiescent Prominences
Y. Nakagawa and J. McKim Malville 9, 102
- A Model for Quiescent Prominences with Helical Structure
Ulrich Anzer and E. Tandberg-Hanssen 11, 61
- Sudden Disappearance of a Large Quiescent Prominence on the Solar Disk, April 28, 1967
Marie McCabe 12, 115
- Thermal and Dynamical Stability of Prominences
Y. Nakagawa 12, 419
- Measurements of Line-of-Sight Velocities in Prominences
Ludwik Liszka 14, 354
- The Orientation of Magnetic Fields in Quiescent Prominences
E. Tandberg-Hanssen and Ulrich Anzer 15, 158
- The Structure of the Monochromatic Corona in the Surroundings of Prominences
M. Waldmeier 15, 167
- Magnetic Fields in Quiescent Prominences
Einar Tandberg-Hanssen 15, 359
- Origin of Quiescent Prominences
S. B. Pikel'ner 17, 44
- Spectral Analysis of Four Quiescent Prominences Observed at the Peruvian Eclipse
Tadashi Hirayama 17, 50
- Morphological Relationships in the Chromospheric H α Fine Structure
Peter Foukal 19, 59
- Solar Rotation: Direct Evidence from Prominences for a Westward Wind
W. Livingston 19, 379
- Energy Balance in Cool Quiescent Prominences
A. Poland and U. Anzer 19, 401
- The Helium Radiation in Prominences
N. A. Yakovkin and M. Yu. Zeldina 19, 414
- Radio Observations of Filaments during the Eclipses of September 11, 1969 and March 7, 1970
M. Simon and Bengt-Arne Wickström 20, 122
- High Dispersion Spectroscopic Study of Quiescent Prominences
O. Engvold and W. Livingston 20, 375
- Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico
G. M. Nikolsky, R. A. Gulyaev, and K. I. Nikolskaya 21, 332
- Possible Long-Period Oscillations in Solar Radio Emission at Microwaves
Pierre Kaufmann 23, 178
- The Internal Motion of Quiescent Prominences
Oddbjörn Engvold 23, 346
- Ionized Helium in Prominences and in the Chromosphere
Tadashi Hirayama 24, 310
- A Method to Calculate Electric Currents in Quiescent Prominences
Ulrich Anzer 24, 324
- Thermal Instability of Coronal Neutral Sheets and the Formation of Quiescent Prominences
M. A. Raadu and M. Kuperus 28, 77
- Filter Observations of Prominences in the D₃ and H α Lines
I. S. Kim and G. M. Nikolsky 28, 377
- A Secondary Polar Zone of Solar Prominences
M. Waldmeier 28, 389
- Positions of Filament Feet in Relation to the Supergranular Calcium Network
S. P. Łocieniak and B. Rimpolt 29, 399

- The Arch Systems, Cavities and Prominences in the Helmet Streamer Observed at the Solar Eclipse, November 12, 1966
Kuniji Saito and E. Tandberg-Hanssen **31**, 105
- Macroscopic Motions in Prominences. II: Optical Pairs and Interacting Prominences
Hugo Grossi Gallegos and Marcos E. Machado **31**, 427
- Identification and Analysis of Structures in the Corona from X-Ray Photography
G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81
- Determination of Electron Temperature of Quiescent Prominences by Hydrogen Lines
N. N. Morozhenko **34**, 303
- On Intensity Ratios of Helium and Hydrogen Lines in Quiescent Prominences
N. N. Morozhenko **34**, 313
- On Peculiarities of the H and K Ca II Lines of Quiescent Prominences
N. N. Morozhenko **35**, 395
- Differential Rotation of Solar Filaments
David L. Glackin **36**, 51
- The Structure of the Middle Corona from Observations at 80 and 160 MHz
G. A. Dulk and K. V. Sheridan **36**, 191
- Solar Prominences in the Extreme Ultraviolet as Observed from the Apollo Telescope Mount
E. J. Schmahl, P. V. Foukal, M. C. E. Huber, R. W. Noyes, E. M. Reeves, J. G. Timothy, J. E. Vernazza, and G. L. Withbroe **39**, 337
- On the Intensity of Helium and Hydrogen Lines in Quiescent Prominences with Filamentary Structure
N. N. Morozhenko **39**, 349
- Emission of Helium in Prominences and the Chromosphere
N. N. Morozhenko **42**, 71
- Line Profile Analysis of a Coronal Formation Observed near a Quiescent Prominence: Intensities, Temperatures and Velocity Fields
Tokio Tsubaki **43**, 147
- Global Distribution of Filaments during Solar Cycle No. 20
Richard Hansen and Shirley Hansen **44**, 225
- Differential Rotation and Reconnection as Basic Causes of Some Coronal Reorientations
Shirley F. Hansen and Richard T. Hansen **44**, 503
- Observations of Helium and Hydrogen Emission in Quiescent Prominences
Rainer M. E. Illing, Donald A. Landman, and Donald L. Mickey **45**, 339 *Errata* 58, 211
- Studies of the Prominence-Corona Transition Zone from Rocket Ultraviolet Spectra of the March 1970 Eclipse
C. Y. Yang, R. W. Nicholls, and F. J. Morgan **45**, 351
- H α Contrast Profiles of Filament Features
P. Maltby **46**, 149 *Erratum/Replacement Figures: Figs. 1, 2, 3, 4(a) - 53*, 547
- The Fine Structure of Prominences. I: Observations - H α Filtergrams
Oddbjørn Engvold **49**, 283
- The Fine Structure of Prominences. II: Vertical Flux Ropes and Filamentary Structure
J. McKim Malville **50**, 79
- A Possible Example of Giant Convective Cells Delineated by Magnetic Fields
W. J. Wagner and L. B. Gilliam **50**, 265
- The Prominence-Corona Interface Compared with the Chromosphere-Corona Transition Region
Frank Q. Orrall and Edward J. Schmahl **50**, 365
- A Study of the He λ 10830 Line Emission from Quiescent Prominences
Donald A. Landman **50**, 383
- Temperature et microturbulence dans les régions externes des protubérances
Z. Mouradian et J. L. Leroy **51**, 103
- High Dispersion Spectroscopy of Quiescent Prominences. II: Vertical Structure of the Line-of-Sight Velocity Field
Lawrence W. Ramsey **51**, 307
- The Ca II Emission Lines in Quiescent Prominences
J. N. Heasley, R. W. Milkey, and Oddbjørn Engvold **51**, 315
- On Pikel'ner's Theory of Prominences
Oddbjørn Engvold and Eberhart Jensen **52**, 37

- The Formation of Solar Prominences by Thermal Instability in a Current Sheet
E. A. Smith and E. R. Priest 53, 25
- A Self-Consistent Model of a Thermally Balanced Quiescent Prominence in Magnetostatic Equilibrium in a Uniform Gravitational Field
I. Lerche and B. C. Low 53, 385
- A Study of Filament Transition Sheath from Radio Observations
A. Pramesh Rao and M. R. Kundu 55, 161
- The Filament-Corona Transition Region from OSO-VI EUV Observations
Franca Chiuderi Drago and Maurizio Silvi 55, 177
- Measurement of the Relative Intensities of He ζ -H δ Lines λ 3889Å in the Spectrum of the Chromospheric Spicules at Various Heights above the Limb
K. Nikolskaya 56, 71
- The Fine Structure of Prominences. IV: Spectral Observations
Oddbjørn Engvold 56, 87
- Configuration and Gradual Dynamics of Prominence-Related X-Ray Coronal Cavities
S. Serio, G. S. Vaiana, G. Godoli, S. Motta, V. Pirronello, and R. A. Zappalà 59, 65
- The Fine Structure of Prominences. V.: Active Edges of Quiescent Prominences
O. Engvold, J. M. Malville, and W. Livingston 60, 57
- An Investigation of Macroscopic Motions Using the Ca⁺ Lines in the Prominence of 15 October 1969
M. Sh. Gigolashvili 60, 293
- EUV Observations of Quiescent Prominences from Skylab
O. Kjeldseth Moe, J. W. Cook, and S. A. Mango 61, 319
- Prominences at Centimetric and Millimetric Wavelengths. I: Size and Spectrum of the Radio Filaments
A. Raoult, P. Lantos, and E. Fürst 61, 335
- The Middle Balmer Decrement in Quiescent Prominences
Donald A. Landman and Michael Mongillo 63, 87
- Some Calculations Bearing on the Heating and Cooling of Quiescent Prominences
I. Lerche 63, 93
- Cylindrical Prominences and the Magnetic Influence of the Photospheric Boundary
I. Lerche and B. C. Low 66, 285
- Thermodynamic Models and Fine Structure of Prominences
O. Engvold 67, 351
- Structure and Evolution of Velocities in Quiescent Filaments
M.-J. Martres, P. Mein, B. Schmieder, and I. Soru-Escaut 69, 301
- Analysis of Extreme-Ultraviolet Spectroheliograms of Solar Prominences
Mitsuo Kanno, George L. Withbroe, and Robert W. Noyes 69, 313
- A Variational Approach to the Question of Temporal Stability of Equilibrium Models of Solar Prominences. I: The Formal Theory
I. Lerche and B. C. Low 69, 327
- The Small Scale Velocity Field of a Quiescent Prominence
O. Engvold 70, 315
- $L\alpha$, $L\beta$ (of H I), k and h (of Mg II), K and H (of Ca II) Observations in a Quiescent Prominence with the OSO-8 LPSP Instrument
J. C. Vial, M.-J. Martres, and J. Salm-Platzer 70, 325
- The Vertical Filamentary Structures of Quiescent Prominences
B. C. Low 75, 119
- Observed Mass Motions in Limb Prominences
Andries H. Lategan and A. H. Jarrett 76, 323
- Fine Structure of Motions in a Quiescent Prominence
M. Sh. Gigolashvili and Yu. D. Zhugzhda 77, 95
- Velocity Fields in Quiescent Prominences
Eberhart Jensen 77, 109
- Na I D Brightening Phenomena in Quiescent Prominences
Yoshinobu Nikaidou 80, 259
- Impulsive Brightenings and Velocity Transients in Prominences. I: Large Events
J. M. Malville and G. D. Toot 80, 279

- Measurements of the Magnetic Field in Solar Prominences with a Spectrally Scanning Magnetograph
G. M. Nikolsky, I. S. Kim, and S. Koutchmy 81, 81
- The Observations of 80-min Oscillations in the Quiescent Prominences
V. S. Bashkirtsev, N. I. Kobanov, and G. P. Mashnich 82, 443
- On the Intensity Ratio of Emission Lines of Na I D₁ to D₂ in Prominences
Yoshinobu Nikaidou and Ichiro Kawaguchi 84, 49
- Physical Conditions in a Quiescent Prominence Derived from UV Spectra Obtained with the UVSP Instrument on the SMM
A. I. Poland and E. Tandberg-Hanssen 84, 63
- A Model of a Quiescent Prominence on the Basis of Studying the K Ca⁺ Line Fine Structure
M. Sh. Gigolashvili and Yu. D. Zhugzhda 87, 43
- The Formation of Solar Prominences by Magnetic Reconnection and Condensation
G. W. Pneuman 88, 219
- Vector Magnetic Fields in Prominences. III: He I D₃ Stokes Profile Analysis for Quiescent and Eruptive Prominences
R. Grant Athay, Charles W. Querfeld, Raymond N. Smartt, Egidio Landi Degl'Innocenti, and Veronique Bommier 89, 3
- Alfvén Waves and Turbulence in Quiescent Prominences
Eberhart Jensen 89, 275
- Visible Coronal Emission Associated with a Quiescent Prominence
Raymond N. Smartt and Zhenda Zhang 90, 315
- Oscillatory Processes in Prominences
V. S. Bashkirtsev and G. P. Mashnich 91, 93
- Determination of the Total Amount of Hydrogen Atoms in a Quiescent Prominence
M. Sh. Gigolashvili 93, 317
- Hydromagnetic Buoyancy Force in the Solar Atmosphere
Tyan Yeh 95, 83
- Quiescent Prominence Threads Models
Juan Manuel Fontenla and Marta Rovira 96, 53
- Vector Magnetic Fields in Prominences. II: He I D₃ Stokes Profiles Analysis for Two Quiescent Prominences
Charles W. Querfeld, Raymond N. Smartt, Veronique Bommier, Egidio Landi Degl'Innocenti, and Lewis L. House 96, 277
- Modern Observations of Solar Prominences (*Invited Review Paper*)
Tadashi Hirayama 100, 415

Prominences, Spectrum

- Observations of a Flare Spray at the Solar Limb on July 11, 1966
Y. Öhman, G. Stiber, and U. Kusoffsky 1, 60
- A Phenomenological Model for *Disparitions Brusques* Followed by Flarelike Chromospheric Brightenings. II: Observations in Active Regions
Charles L. Hyder 2, 267 *Rectification* 2, 505 and *Corrigenda* 3, 624
- Motions and Magnetic Fields in Quiescent Prominences
J. McKim Malville 4, 323
- Photométries comparées des émissions de l'hydrogène et de l'hélium dans les régions externes des protubérances
Jean-Louis Leroy 7, 221
- Spectral Analysis of Four Quiescent Prominences Observed at the Peruvian Eclipse
Tadashi Hirayama 17, 50
- Solar Rotation: Direct Evidence from Prominences for a Westward Wind
W. Livingston 19, 379
- The Abundance of Helium in Prominences and in the Chromosphere
Tadashi Hirayama 19, 384
- On the Abundance of Calcium in the Solar Corona
Richard R. Fisher 19, 431
- On the Distribution of Material as a Function of Temperature in the Post-Flare Loop System of 12 August 1970
Richard R. Fisher 19, 440
- High Dispersion Spectroscopic Study of Quiescent Prominences
O. Engvold and W. Livingston 20, 375

Ionized Helium in Prominences and in the Chromosphere

Tadashi Hirayama 24, 310

On the Line Intensity Ratios $E(H\alpha)/E(D3)$ and $E(H\beta)/E(D3)$ in Prominences

G. Stellmacher 25, 104

The Loop Prominence of May 13, 1971 and Its Associated Effects

M. E. Machado, H. Grossi Gallegos, and A. F. Silva 25, 402

Spatial Relationship between $\lambda 5303$ and $H\alpha$ Components of a Loop Prominence System

Marie K. McCabe 30, 439

Stationary Equations of Hydrogen Excitation and Ionization in Prominences

Ts. Chultem and N. A. Yakovkin 34, 133

Determination of Electron Temperature of Quiescent Prominences by Hydrogen Lines

N. N. Morozhenko 34, 303

On Intensity Ratios of Helium and Hydrogen Lines in Quiescent Prominences

N. N. Morozhenko 34, 313

On Peculiarities of the H and K Ca II Lines of Quiescent Prominences

N. N. Morozhenko 35, 395

The Loop Prominence of 11 August 1972: A Coronal Continuum Event

R. R. Fisher 35, 401

Solar Prominences in the Extreme Ultraviolet as Observed from the Apollo Telescope Mount

E. J. Schmahl, P. V. Foukal, M. C. E. Huber, R. W. Noyes, E. M. Reeves, J. G. Timothy, J. E. Vernazza, and G. L. Withbroe 39, 337

On the Intensity of Helium and Hydrogen Lines in Quiescent Prominences with Filamentary Structure

N. N. Morozhenko 39, 349

Emission of Helium in Prominences and the Chromosphere

N. N. Morozhenko 42, 71

The Prominence Radiation Theory

N. A. Yakovkin and M. Yu. Zeldina 45, 319

Observations of Helium and Hydrogen Emission in Quiescent Prominences

Rainer M. E. Illing, Donald A. Landman, and Donald L. Mickey 45, 339 Errata 58, 211

Studies of the Prominence-Corona Transition Zone from Rocket Ultraviolet Spectra of the March 1970 Eclipse

C. Y. Yang, R. W. Nicholls, and F. J. Morgan 45, 351

The Prominence-Corona Interface Compared with the Chromosphere-Corona Transition Region

Frank Q. Orrall and Edward J. Schmahl 50, 365

Temperature et microturbulence dans les régions externes des protubérances

Z. Mouradian et J. L. Leroy 51, 103

The Ca II Emission Lines in Quiescent Prominences

J. N. Heasley, R. W. Milkey, and Oddbjørn Engvold 51, 315

A Model for X-Ray Emission from Loop Prominences

K. J. H. Phillips and J. B. Zirker 53, 41

The Filament-Corona Transition Region from OSO-VI EUV Observations

Franca Chiuderi Drago and Maurizio Silvi 55, 177

The Fine Structure of Prominences. IV: Spectral Observations

Oddbjørn Engvold 56, 87

The Fine Structure of Prominences. V.: Active Edges of Quiescent Prominences

O. Engvold, J. M. Malville, and W. Livingston 60, 57

Profiles of H I ($\lambda\alpha$), Mg II (h and k), Ca II (H and K) Lines of an Active Filament at the Limb, with the LPSP

Instrument aboard the OSO-8 Satellite

I. C. Vial, P. Gouttebroze, G. Artzner, and P. Lemaire 61, 39

Simultaneous Measurements of Ca^+ K, Ca^+ H, $H\alpha$, $H\beta$ and He D₃ Emission in Prominences

G. Stellmacher 61, 61

EUV Observations of Quiescent Prominences from Skylab

O. Kjeldseth Moe, J. W. Cook, and S. A. Mango 61, 319

The Middle Balmer Decrement in Quiescent Prominences

Donald A. Landman and Michael Mongillo 63, 87

A Prominence Model Based on Spectral Observations

J. M. Fontenla 64, 177

- $L\alpha$, $L\beta$ (of H I), k and h (of Mg II), K and H (of Ca II) Observations in a Quiescent Prominence with the OSO-8 LPSP Instrument
J. C. Vial, M.-J. Martres, and J. Salm-Platzter **70**, 325
- The Corona Associated with Solar Filaments
Robert D. Chapman **71**, 151
- On the Branching in the Emission Relations of Ca^+ in Prominences
G. Stellmacher and E. Wiehr **71**, 299
- Na I D Brightening Phenomena in Quiescent Prominences
Yoshinobu Nikaidou **80**, 259
- On the Intensity Ratio of Emission Lines of Na I D_1 to D_2 in Prominences
Yoshinobu Nikaidou and Ichiro Kawaguchi **84**, 49
- Physical Conditions in a Quiescent Prominence Derived from UV Spectra Obtained with the UVSP Instrument on the SMM
A. I. Poland and E. Tandberg-Hanssen **84**, 63
- On the Balmer : Paschen Ratio in Prominences
Jay M. Pasachoff, Eric J. Pilger, and Stephen R. Platt **89**, 31

Prominences, Spray (*see Prominences*)**Prominences, Temperature** (*see Prominences, Models*)**Quantum Mechanics**

- Some Oscillator Strengths in the Spectra of C I, O I, Si I, Ca II and Sr II
Walter van Rensbergen **11**, 11
- Determination of Electron Density in Plasma by the Number of the Extreme Resolved Line
L. N. Kurochka and L. B. Maslennikova **11**, 33
- Primary Solar Reaction Dependence on Deuteron Structure
J. E. Brolley **20**, 249
- Quantum Theory of Line Formation in a Magnetic Field
Egidio Landi Degl'Innocenti and Maurizio Landi Degl'Innocenti **27**, 319 *Erratum* 29, 528
- Proton Collisional Excitation in the Ground Configuration of Fe^{+12}
Donald A. Landman **30**, 371 *Errata* 47, 636
- Proton Collisional Excitation in the Ground Configuration of Fe^{+12} , II
Donald A. Landman **31**, 81 *Errata* 47, 636
- The Hanle Effect of the Coronal $L\alpha$ Line of Hydrogen: Theoretical Investigation
V. Bommier and S. Sahal-Br  chot **78**, 157
- Polarization of the Sodium D Lines in Prominences
M. Landolfi and E. Landi Degl'Innocenti **98**, 53

Radar Observations

- Some Observed Characteristics of Solar Radar Echoes and Their Implications
Jesse C. James **12**, 143
- The Solar Wind Velocity in the Eleven-Year Cycle No. 20 and the Solar Radar Cross-Section
Stephen Pint  r **35**, 225
- Radar Studies of the Non-Spherically Symmetric Solar Corona
Stanley P. Owocki, Gordon A. Newkirk, and David G. Sime **78**, 317
- Is There a Common Explanation for Scattering of Type III Radio Bursts and Solar Radar?
Donat G. Wentzel **79**, 375

Radiative Equilibrium (*see Radiative Transfer*)**Radiative Flux**

- Absolute Intensities in the Solar X-Ray Spectrum near Minimum Activity
J. N. van Gils and W. de Graaff **2**, 290
- The High-Dispersion Continuous Ultraviolet Solar Spectrum and the Balmer-Jump
J. Houtgast **3**, 47
- Limb-Darkening Observations between 1800 and 2900   
R. M. Bonnet and J. E. Blamont **3**, 64
- Intensity Measurements of Chromospheric Fine Structures in Lyman-  
William A. Sloan **5**, 329

- The 44-60 Å Flux during the Ascending Period of the Solar Cycle No. 20 (1964-67)
M. Landini, B. C. Monsignori Fossi, G. Poletto, and G. L. Tagliaferri 5, 546
- The Energy Distribution in the Solar EUV Spectrum and Abundance of Elements in the Solar Atmosphere
G. M. Nikolsky 6, 399
- Solar Photography in the Extreme Ultraviolet
W. M. Burton 8, 53
- Systematic Photometry of XUV Images
C. W. Allen 8, 72
- Enhancement of Ionizing Radiation during a Solar Flare
O. K. Garriott, A. V. Da Rosa, M. J. Davis, L. S. Wagner, and G. D. Thome 8, 226
- Absolute Calibration Method and Technique of the Daily Patrol of the Solar Flux Density at 1470 MHz
J. Prieze 9, 235
- Measurements in the Solar Spectrum between 1400 and 1875 Å with a Rocket-Borne Spectrometer
W. H. Parkinson and E. M. Reeves 10, 342
- Iowa Catalog of Solar X-Ray Flux (2-12 Å)
Jerry F. Drake, Sr., Jean Gibson, O.S.B., and James A. Van Allen 10, 433
- Results of New Absolute Measurements of the Solar Flux Density at 9500 MHz
J. Keiser 14, 366
- Transformation of the Absolute Solar Radiation Data into the 'International Practical Temperature Scale of 1968'
Dietrich Labs and Heinz Neckel 15, 79
- Description of an Observational Method for Determining Absolute Intensities in the Solar Spectrum between λ 2962 Å and λ 4087 Å
J. Houtgast 15, 273
- Grazing Incidence Spectra of the Sun
F. F. Freeman and B. B. Jones 15, 288
- Brightness Temperatures of the Quiet Sun and New Moon at the 6 mm Wavelength
E. E. Reber 16, 75
- The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965
John T. Jefferies, Frank Q. Orrall, and J. B. Zirker 16, 103
- A Method of Calculating 0-20 Å Solar X-Ray Flux and Its Spectral Distribution Using 9.1 cm Spectroheliograms
P. R. Sengupta 17, 160
- The Solar Constant (A Compilation of Recent Measurements)
Dietrich Labs and Heinz Neckel 19, 3
- Results of a New Absolute Calibration of the Solar Flux Density at 2980 MHz
G. K. Schmidt 19, 149
- Solar Activity and Planetary Luminosity
V. K. Balasubrahmanyam and D. Venkatesan 19, 257
- The Normalization of Solar X-Ray Data from Many Experiments
Charles D. Wende 22, 492
- Ultraviolet Ion Chamber Measurements of the Solar Minimum Brightness Temperature
J. H. Carver, B. H. Horton, G. W. A. Lockey, and Bryan Rofe 27, 347
- A Recalibration of the Quiet Sun Millimeter Spectrum Based on the Moon as an Absolute Radiometric Standard
Jeffrey L. Linsky 28, 409
- Absolute Calibration of Solar Radio Flux Density in the Microwave Region
H. Tanaka, J. P. Castelli, A. E. Covington, A. Krüger, T. L. Landecker, and A. Tlamicha 29, 243
- The Near Ultra-Violet Flux of the Harvard Smithsonian Reference Atmosphere
R. A. Bell 29, 299
- Rocket Measurement of Solar Fluxes at 1216 Å, 1450 Å and 1710 Å
M. Ackerman and P. Simon 30, 345
- Observation of the Absolute Intensity and the Centre-to-Limb Variation of the Sun in the Vacuum Ultraviolet Region
Keizo Nishi 33, 23
- Calibration of OSO-7 Fe XV 284 Å Spectroheliograms in *Solar-Geophysical Data Bulletin*
R. D. Chapman 38, 415
- Evolution of the Solar Lyman Alpha Flux during Four Consecutive Years
A. Vidal-Madjar 40, 69

- Observations of the Absolute Intensity of the Sun in the Vacuum Ultraviolet Region
Keizo Nishi 42, 37
- Relation of the Observed Far Ultraviolet Solar Irradiance to the Solar Magnetic Sector Structure
Donald F. Heath, John M. Wilcox, Leif Svalgaard, and Thomas L. Duvall 45, 79
- Proceedings of the Workshop: The Solar Constant and the Earth's Atmosphere, held at Big Bear Solar Observatory, North Shore Drive, Big Bear City, California, 92314, 19-21 May 1975
H. Zirin, R. L. Moore, and J. Walter (eds.) 46, 377
- The Solar Brightness Temperature at Millimeter Wavelengths
Richard A. Kuseski and Paul N. Swanson 48, 41
- Solar Flux Determination in the Spectral Range 150-210 nm
Denys Samain and Paul C. Simon 49, 33
- Determination of the Decameter Wavelength Spectrum of the Quiet Sun
W. C. Erickson, T. E. Gergely, M. R. Kundu, and M. J. Mahoney 54, 57
- The Gross Energy Balance of Solar Active Regions
Kenton D. Evans, J. P. Pye, R. J. Hutcheon, M. Gerassimenko, A. S. Krieger, J. M. Davis, and J. F. Vesecy 55, 387
- The Relationship between Solar Activity and the H and K Line Cores in Integrated Sunlight
Dennis E. Jebsen and Walter E. Mitchell, Jr. 57, 309
- On the Variation of the Direct Solar Radiation during the Annular Solar Eclipse of April 29, 1976
J. Deliyannis, D. Papathanasoglou, and M. Stathopoulou-Tsoga 62, 401
- The Solar $L\alpha$ Flux near Solar Minimum
A. Vidal-Madjar and B. Phissamay 66, 259
- Correlated Variations of Planetary Albedos and Coincident Solar-Interplanetary Variations
Steven T. Suess and G. W. Lockwood 68, 393
- A Refined Measurement of the Sunspot Radiative Flux Deficit
R. J. Bray 69, 3
- A Mechanism for Solar Ultraviolet Flux Variability
Kenneth H. Schatten and Donald F. Heath 73, 13
- Proceedings of the 14th ESLAB Symposium 'Physics of Solar Variations' held in Scheveningen, The Netherlands, 16-19 September 1980, *Table of Contents*
- Proceedings of the 14th ESLAB Symposium 'Physics of Solar Variations' held in Scheveningen, The Netherlands, 16-19 September 1980, *Table of Contents*
74, 3
- V. Domingo, Editor 74, 7
- Reflections on Solar Variability
Cornelis de Jager 74, 11
- Solar Interior Structure and Luminosity Variations
D. O. Gough 74, 21
- Solar Radiation and Its Variation in Time
C. Fröhlich and R. W. Brusa 74, 209
- Solar Total Irradiance Observations by Active Cavity Radiometers
Richard C. Willson 74, 217
- Improved Data of Solar Spectral Irradiance from 0.33 to 1.25 μ
Heinz Neckel and Dietrich Labs 74, 231
- Solar Irradiance below 120 nm and Its Variations
Gerhard Schmidtke 74, 251
- Solar Irradiance between 120 and 400 nm and Its Variations
Paul C. Simon 74, 273
- Effects of Solar Variations on the Upper Atmosphere
G. Kockarts 74, 295
- The Response of Ozone to Solar Activity Variations: A Review
Gerald M. Keating 74, 321
- Chemical Response of the Middle Atmosphere to Solar Variations
P. de Baets, G. Brasseur, and P. C. Simon 74, 349
- Increase in the Response of the Earth's Atmosphere to the Sunspot Cycle with Height above Sea Level
H. Schwentek and W. Elling 74, 355
- Similar Periodicities in the Range 12 to 150 Days in Solar, Ionospheric and Atmospheric Time Series
W. Elling and H. Schwentek 74, 373

A Dynamical Mechanism through Which Variations in Solar Ultraviolet Radiation Can Influence Tropospheric Climate

J. R. Bates 74, 399

Climate and Paleoclimate: What We Can Learn about Solar Luminosity Variations

T. M. L. Wigley 74, 435

A 1600 Year Long Record of Solar Change Derived from Atmospheric ^{14}C Levels

Minze Stuiver and Paul D. Quay 74, 479

The Role of Space Techniques in the Understanding of Solar Variability

R. M. Bonnet 74, 485

The Observations of the Solar Irradiance and Its Variations, Challenging Space Meteorology

D. Crommelynck 74, 509

Quick Matching Technique to Study the Relationship between Solar Radius and Luminosity Variations

Sabatino Sofia and Kwing L. Chan 76, 145

The Effects of Sunspots on Solar Irradiance

H. S. Hudson, S. Silva, M. Woodard, and R. C. Willson 76, 211

Solar Irradiance Modulation by Active Regions during 1980

Sabatino Sofia, Ludwig Oster, and Kenneth Schatten 80, 87

The Quiet Sun Brightness Temperature at 127 MHz

Kazimierz M. Borkowski 81, 207

Solar Oscillations Observed in the Total Irradiance

M. Woodard and H. Hudson 82, 67

Sunspot Bright Rings and the Thermal Diffusivity of Solar Convection

L. A. Fowler, P. Foukal, and T. Duvall, Jr. 84, 33

Upper Limits on the Total Radiant Energy of Solar Flares

H. S. Hudson and R. C. Willson 86, 123

On the Integration of Intensity Measurements of the Solar Center and Limb near 300 Nanometers

Kenneth Moe 88, 9

The Solar Constant and Climate

K. Ya. Kondratyev and G. A. Nikolsky 89, 215

The Solar Radiation between 3300 and 12500 Å

Heinz Neckel and Dietrich Labs 90, 205 *Errata* 92, 391

Solar Irradiance Changes Caused by g -Modes and Large-Scale Convection

Charles L. Wolff 93, 1

Expressions to Determine Temperatures and Emission Measures for Solar X-Ray Events from GOES Measurements

R. J. Thomas, R. Starr, and C. J. Crannell 95, 323

Activity of Sunspots and Solar Constant Variations during 1980

Judit Pap 97, 21

The Future of Solar Physics (*Invited Review Paper*)

E. N. Parker 100, 599

Radiative Flux, Absolute (*see Radiative Flux*)

Radiative Flux, Relative (*see Radiative Flux*)

Radiative Processes

Optical Pumping and the D-Line Ratio of Comet 1962-III

N. S. Kovar and R. P. Kovar 3, 611

Theory of Deka-keV Solar X-Ray Bursts

R. Snijders 4, 432

Determination of the Coronal Magnetic Field and the Radio-Emitting Electron Energy from a Type IV Solar Radio Burst

Reuven Ramaty and Richard E. Lingenfelter 5, 531

Interpretation of Time Characteristics of Solar X-Ray Bursts Referring to Associated Microwave Bursts

Tatsuo Takakura 6, 133

Directivity of Solar Hard X-Ray Bursts

Ken-Ichiro Ohki 7, 260

- Interpretation of Type I- and IV mB-Bursts and Noise Storms by Mode Coupling in the Warm Plasma
L. Mollwo 12, 125
- Theory of Solar Radio Pulsation
Y. T. Chiu 13, 420
- The Phase of Particle Acceleration in the Flare Development
Z. Švestka 13, 471
- White Light Events as Photospheric Flares
Kazutoshi Najita and Frank Q. Orrall 15, 176
- Towards a Theory for Type III Solar Radio Bursts. I: Nature of the Exciting Agency
D. F. Smith 15, 202
- The Cooling of Flare Produced Plasmas in the Solar Corona
J. L. Culhane, J. F. Vesecky, and K. J. H. Phillips 15, 394
- Characteristics of Soft Solar X-Ray Bursts
Jerry F. Drake 16, 152
- On the Problem of the Flare-Like Emission in Sodium Lines
E. A. Gurtovenko 16, 413
- The Origin of Flare Produced Hard X-Rays
R. W. Milkey 16, 465
- A Method of Calculating 0-20 Å Solar X-Ray Flux and Its Spectral Distribution Using 9.1 cm Spectroheliograms
P. R. Sengupta 17, 160
- Coherent Synchrotron Deceleration and the Emission of Type II and III Solar Radio Bursts
A. F. Kuckes and R. N. Sudan 17, 194
- On the Origin of Solar Flare X-Rays
A. A. Korchak 18, 284
- The Time Behavior of Temperature and Emission Measure in X-Ray Flares
Robert W. Milkey, Norman K. Blocker, William H. Chambers, Paul E. Fehla, Jack C. Fuller, and Walter E. Kunz 20, 400
- Measurements on the Lyman Alpha Corona
A. H. Gabriel 21, 392
- Heating of the Solar Flare Plasma by High Energy Electrons
Chung-Chieh Cheng 22, 178
- Structure of the Chromosphere-Corona Transition Region
R. L. Moore and P. C. W. Fung 23, 78
- Thick-Target Processes and White-Light Flares
H. S. Hudson 24, 414
- The Self Absorption of Gyro-Synchrotron Emission in a Magnetic Dipole Field: Microwave Impulsive Burst and Hard X-Ray Burst
Tatsuo Takakura 26, 151
- Thermal and Non-Thermal Soft X-Ray Bursts
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 27, 164
- Thick Target X-Ray Bremsstrahlung from Partially Ionized Targets in Solar Flares
John C. Brown 28, 151
- Non-Thermal Ionization and Recombination Processes during Solar Flares
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 29, 93
- The Solar Albedo of Hard X-Ray Flares
N. Santangelo, H. Horstman, and E. Horstman-Moretti 29, 143
- A Search for Continuous Ultraviolet Opacity Sources in the Sun's Photosphere
Egidio Landi Degl'Innocenti and Giancarlo Noci 29, 287
- On the Ionization of Hydrogen in Optical Flares
John C. Brown 29, 421
- On the Source of the Slowly Varying Component at Centimeter and Millimeter Wavelengths
Fred I. Shimabukuro, Gary A. Chapman, Earle B. Mayfield, and Sidney Edelson 30, 163
- A Theory of the Origin of the Split Pair Burst Emission from the Solar Corona
W. K. Yip 30, 513
- The Temperature Structure of Chromospheric Flares Heated by Non-Thermal Electrons
John C. Brown 31, 143

- The Thermal Nature of Soft X-Ray Flares
I. J. D. Craig **31**, 197
- The H α Flare as a Secondary Product of a Coronal Instability
Z. Švestka **31**, 389
- On the Mechanism of Formation of Loop Prominences
Bibhas R. De **31**, 437 *Erratum 33*, 262
- K α Line Emission during Solar X-Ray Bursts
K. J. H. Phillips and W. M. Neupert **32**, 209
- Temporal Fine Structure of X-Rays from Trapped Electrons in Solar Flares
John C. Brown **32**, 227
- Pulsating Type IV Solar Radio Bursts
B. L. Gotwols **33**, 475
- Stationary Equations of Hydrogen Excitation and Ionization in Prominences
Ts. Chultem and N. A. Yakovkin **34**, 133
- On a Method to Determine the Effective Extension, Visibility of the Balmer Continuum, and the Effective Mass in Solar Flares
R. E. Guseinov, L. B. Tzirulnik, and A. H. Babayev **34**, 207
- Theoretical Model of Flares and Prominences. I: Evaporating Flare Model
T. Hirayama **34**, 323
- Theoretical Chromospheric Flare Spectra. II: Hydrogen Equilibrium for Brown's (1973) Models for Heating by Non-Thermal Electrons
Richard C. Canfield **34**, 339
- Towards a Theory for Type III Solar Radio Bursts. II: The Radiation Source
Dean F. Smith **34**, 393
- On a Suggested Explanation for Fine Structures Observed in Some Wide-Band Bursts
W. N.-C. Sy **34**, 427
- Neutron Propagation and 2.2 MeV Gamma-Ray Line Production in the Solar Atmosphere
H. T. Wang and R. Ramaty **36**, 129
- Cooling of Solar Flare Plasmas
W. T. Zaumen and L. W. Acton **36**, 139
- The Nature of the Sunspot Phenomenon. I: Solutions of the Heat Transport Equation
E. N. Parker **36**, 249
- High Resolution Interferometry of the Sun at 3.7 cm Wavelength
Kenneth R. Lang **36**, 351
- The Slowly Varying Component of Solar Meter Wavelength Radiation: A Non-Thermal Radio Source
A. C. Riddle **36**, 375
- A Multithermal Analysis of Solar X-Ray Emission
Kenneth P. Dere, Donald M. Horan, and Robert W. Kreplin **36**, 459
- Radiation Loss and Mechanical Heating in the Solar Chromosphere
Peter Ulmschneider **39**, 327
- On the Low-Temperature Region of Chromospheric Flares
B. V. Somov and S. I. Syrovatskii **39**, 415
- Heating and Cooling of the Thermal X-Ray Plasma in Solar Flares
Ronald L. Moore and Dayton W. Datlowe **43**, 189
- The Solar-Flare Infrared Continuum
K. Ohki and H. S. Hudson **43**, 405
- Cyclotron Wave Instability in the Corona and the Origin of Solar Radio Emission with Fine Structure. II: Origin of 'Tadpoles'
V. V. Zheleznyakov and E. Ya. Zlotnik **44**, 447
- Towards a Theory for Type III Solar Radio Bursts. III: The Radiation Source Including Scattering
Dean F. Smith and Anthony C. Riddle **44**, 471
- On the Possible Mechanism of Formation of Emission Rim in Hydrogen Filaments
R. I. Kostik and T. V. Orlova **45**, 119
- Type IV dm Bursts: Onset and Sudden Reductions
Arnold O. Benz and Jan Kuijpers **46**, 275 *Erratum/Replacement Figures: Figs. 6, 7 - 53, 547*

Radiation Loss and Mechanical Heating in the Low Solar Chromosphere

F. Praderie and R. N. Thomas 50, 333

A Two-Component Model of Impulsive Microwave Burst Emission Consistent with Soft and Hard X-Rays

A. Böhme, F. Fürstenberg, J. Hildebrandt, O. Saal, A. Krüger, P. Hoyng, and G. A. Stevens 53, 139

Introductory Talk, Location of the Primary Flare Site and Energy Transfer in Flares

J. C. Brown 53, 263

Ultraviolet Brightenings in Active Regions as Observed from OSO-8

B. W. Lites and E. R. Hansen 55, 347

Current Sheets as the Source of Heating for Solar Active Regions

B. V. Somov and S. I. Syrovatskii 55, 393

The Effect of Nonlinear Conduction on the Cooling of Flare Loops

K. R. Krall 55, 455

The Association of Nonthermal Electrons with Non-Flaring Coronal Transients

D. F. Webb and M. R. Kundu 57, 155

Autoionization Rate Coefficients for Some Ions of Astrophysical Interest

H. P. Mital and U. Narain 57, 341

Excitation Equilibrium for Low Lying Levels in C II, N III, O IV, Ne VI, Mg VIII, Si X, and Si II

Suresh Chandra 58, 291

Heat Transfer in Solar Flares

B. V. Somov 60, 315

Some Calculations Bearing on the Heating and Cooling of Quiescent Prominences

I. Lerche 63, 93

The Heating of the Temperature Minimum Region in Solar Flares - A Reassessment

A. Gordon Emslie and Marcos E. Machado 64, 129

Dynamic Spectral Characteristics of Thermal Models for Solar Hard X-Ray Bursts

John C. Brown, Ian J. D. Craig, and Judith T. Karpen 67, 143

Vertical Motions in an Intense Magnetic Flux Tube. IV: Radiative Relaxation in a Uniform Medium

A. R. Webb and B. Roberts 68, 71

Vertical Motions in an Intense Magnetic Flux Tube. V: Radiative Relaxation in a Stratified Medium

A. R. Webb and B. Roberts 68, 87

Does H⁻ Truly Cool the Solar Chromosphere?

Thomas R. Ayres 68, 125

Thermal Cyclotron Radio Emission of Neutral Current Sheets in the Solar Corona

V. V. Zheleznyakov and E. Ya. Zlotnik 68, 317

The Optical Continuum of Solar and Stellar Flares

M. A. Livshits, O. G. Badalyan, A. G. Kosovichev, and M. M. Katsova 73, 269

Impulsive Phase of Flares in Soft X-Ray Emission

E. Antonucci, A. H. Gabriel, L. W. Acton, J. L. Culhane, J. G. Doyle, J. W. Leibacher, M. E. Machado,

L. E. Orwig, and C. G. Rapley 78, 107

Spatial and Temporal Evolution of Soft and Hard X-Ray Emission in a Solar Flare

Marcos E. Machado, André Duijveman, and Brian R. Dennis 79, 85

Influence of the Acoustic Radiation Pressure on the Atmosphere of the Sun

O. Bschorr 79, 327

Microwave Emission from Hot X-Ray Kernels in Solar Flares

V. V. Zheleznyakov and Yu. V. Tikhomirov 81, 121

Helium Radiation Diffusion in Prominences

N. A. Yakovkin, M. Yu. Zeldina, and Ch. Lhagvazhav 81, 339

Interpretation of Patterns of Drifting Zebra Stripes

L. Mollwo 83, 305

Heat Balance for the High-Temperature Component of a Solar Flare

André Duijveman 84, 189

Transient Brightenings of Interconnecting Loops. III: Interpretation

Daniel S. Spicer and Zdeněk Švestka 87, 271

The Plasma Radiation of Flare Kernels

V. V. Zaitsev and A. V. Stepanov 88, 297

Possible Detection of Thermal Cyclotron Lines from Small Sources within Solar Active Regions

Robert F. Willson 89, 103

Energetics of a Compact Flare

Marcos E. Machado 89, 133

The Spatial Distribution of 6 Centimeter Gyroresonance Emission from a Flaring X-Ray Loop

S. W. Kahler, D. F. Webb, J. M. Davis, and M. R. Kundu 82, 271

The H⁻ Equilibrium Using Coupled Rate Equations for H⁻, H, H⁺, H₂, and H₂⁺

Bruce W. Lites and Dimitri Mihalas 93, 23

Cyclotron Radio Emission in Plasma with Steep Temperature Gradient

M. Siarkowski 94, 105

Synchrotron or Plasma Emission in Solar Microwave Flares?

A. O. Benz 94, 161

Radiative and Reconnection Instabilities: Compressible and Viscous Effects

T. Tachi, R. S. Steinolfson, and G. Van Hoven 95, 119

Clues to the Mode of Excitation of Fe X Ions in the Solar Corona from the 1980 Eclipse Observations

Jagdev Singh 95, 253

The Loss-Cone Driven Instability for Langmuir Waves in an Unmagnetized Plasma

R. G. Hewitt and D. B. Melrose 96, 157

Hard X-Ray Bremsstrahlung Produced by Electrons Escaping a High-Temperature Thermal Source in a Solar Flare

Luidi Nocera, Yu. I. Skrynnikov, and Boris V. Somov 97, 81

Analysis of a White-Light Flare Spectrum

R. Boyer, M. E. Machado, D. M. Rust, and P. Sotirovski 98, 255

A Coherent Radiation Mechanism for Type IV Solar Radio Bursts

G. S. Lakhina and B. Buti 99, 277

Radiative Transfer**A New Method for the Analysis of Equivalent Widths and Its Application to Solar Photospheric Oxygen**

Richard C. Altrock 5, 260

The Structure of a Sunspot. IV: A Two-Dimensional Radiative Transfer Analysis of Center-Limb Intensity Profiles

P. R. Wilson 5, 338

A Model for the Penumbra of Sunspots

O. Kjeldseth Moe and P. Maltby 8, 275

Temperature Fluctuations in the Solar Photosphere. II: The Mean Limb-Darkening and the Second Maximum

P. R. Wilson 9, 303

On the Properties of Umbral Dots

P. R. Wilson 10, 404

Depth-Dependent Line Blanketing by Neutral and Ionized Metals in a Homogeneous Model Solar Photosphere

Thomas E. Margrave, Jr. 11, 22

On the Center to Limb Variation of the Separation of the Mg II, H₂ and K₂ Emission Peaks

A. Greve 16, 328

Scattering of Radiowaves from Cosmic Sources in the Solar Corona

L. L. Baselyan and V. G. Sinitsin 17, 129

Hydrogen Ionization and $n = 2$ Population for Model Spicules and Prominences

A. Poland, A. Skumanich, R. G. Athay, and E. Tandberg-Hanssen 18, 391

Energy Balance in Cool Quiescent Prominences

A. Poland and U. Anzer 19, 401

Facular Models and the Sunspot Energy Deficit

P. R. Wilson 21, 101

The Transfer of Lyman Continuum Radiation in Chromospheric Flares

Robert S. Kandel, Michael D. Papagiannis, and Federico M. Strauss 21, 176

On the Radio Optical Depth of the Layer Where the Temperature Equals the Brightness Temperature

Franca Chiuderi Drago 27, 132

On an Anomalous Polarization of the Corona

M. M. Molodensky 28, 465

Spatial Dispersion of Faraday Rotation and Its Connection with Mode Coupling

Christian Mätzler 32, 241

Stationary Equations of Hydrogen Excitation and Ionization in Prominences

Ts. Chultem and N. A. Yakovkin 34, 133

Theoretical Chromospheric Flare Spectra. I: Hydrogen Equilibrium for the Kinematic Flare-Shock Model of Nakagawa *et al.* (1973)

Richard C. Canfield and R. Grant Athay 34, 193

On Intensity Ratios of Helium and Hydrogen Lines in Quiescent Prominences

N. N. Morozhenko 34, 313

Theoretical Chromospheric Flare Spectra. II: Hydrogen Equilibrium for Brown's (1973) Models for Heating by Non-Thermal Electrons

Richard C. Canfield 34, 339

Structure of Sunspots. II: A Continuum Model Atmosphere for Dark Umbral Cores

Cornelis Zwaan 37, 99

The Polarization of Continuum Radiation in Sunspots. I: Rayleigh and Thomson Scattering

G. D. Finn and J. T. Jefferies 39, 91

On the Intensity of Helium and Hydrogen Lines in Quiescent Prominences with Filamentary Structure

N. N. Morozhenko 39, 349

The Formation of Mg I 4571 Å in the Solar Atmosphere. V: The Multi-Dimensional Structure of the Photosphere and Low Chromosphere

Richard C. Altrock and C. J. Cannon 42, 289

An Archetype Hydrogen Atmosphere Problem

R. Grant Athay, Dimitri Mihalas, and R. A. Shine 45, 15

Structure of Sunspots. III: A Minimum-Gradient Model Atmosphere for Umbrae

Cornelis Zwaan 45, 115

The Effects of Scattering on Quiet Sun Emission at Frequencies Less than 200 MHz

J. N. McMullin and H. L. Helfer 53, 471

Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. I: Method

B. Schmieder 54, 269

Heat Flow near Obstacles in the Solar Convection Zone

H. C. Spruit 55, 3

Radiation Transfer in Prominences with Filamentary Structure

N. N. Morozhenko 58, 47 Errata 62, 223

Excitation Equilibrium for Low Lying Levels in C II, N III, O IV, Ne VI, Mg VIII, Si X, and Si II

Suresh Chandra 58, 291

The Radiative Relaxation Time in the Chromosphere

R. G. Giovanelli 59, 293

Radiative Transfer and Solar Oscillations (*Invited Review*)

Jørgen Christensen-Dalsgaard and Søren Frandsen 82, 165

Expressions to Determine Temperatures and Emission Measures for Solar X-Ray Events from GOES Measurements

R. J. Thomas, R. Starr, and C. J. Crannell 95, 323

Quiescent Prominence Threads Models

Juan Manuel Fontenla and Marta Rovira 96, 53

On the Solution of the Radiative Transfer Equations for Polarized Radiation

E. Landi Degl'Innocenti and M. Landi Degl'Innocenti 97, 239

X-Ray Resonance Scattering in a Spherically Symmetric Coronal Model

Bernhard M. Haisch and E. Scott Claflin 99, 101

Radiative Transfer, in Spectral Lines

A Generalized Theory for Line Formation in a Homogeneous Magnetic Field

Olav Kjeldseth Moe 4, 267

On the Frequency Dependence of the Line Source Function

Gordon Worrall 8, 18

About the Influence of Inhomogeneities of Magnetic Fields on Line Contours and Magnetographic Measurements

J. Staude 8, 264

On the Pseudo- π -Component in Sunspot Spectra

Rainer Göhring 8, 271

- The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. I: The Zeeman Triplet
J. M. Beckers 9, 372 *Erratum 15, 507*
- Ca II Resonance Lines in Non-Homogeneous Chromospheres
Herbert A. Beebe and Hollis R. Johnson 10, 79
- A Solar Spicule Model Based upon Calcium II K Line Radiative Transfer Studies
Lorne W. Avery and Lewis L. House 10, 88
- The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. II: Zeeman Multiplets for Dipole and Quadrupole Radiation
J. M. Beckers 10, 262
- Line Formation in a Magnetic Field
David E. Rees 10, 268
- On Polarimetry in Solar Active Regions. II: Selection of Lines; Interpretation of Polarimetric Data
E. Wiehr 11, 399
- Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. II: The Influence of Different Atmosphere Models and of a Magnetic Field Gradient
J. Staude 12, 84 *Erratum 15, 111*
- The Formation of the Ca II Line in a Spinning Spicule
Lorne W. Avery 13, 301
- Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. III: Calculations for Different Spot Models and Arbitrary Depth Dependence of the Magnetic Field Vector
J. Staude 15, 102
- On the Absorption Matrix in a Non-Uniform Magnetic Field
David E. Rees 16, 67
- Analytical Solutions to the Unno Transfer Equations for the Stokes Parameters in a Milne-Eddington Atmosphere
M. J. Hagyard 16, 286
- Calculations of Two-Dimensional Models of the Lower Solar Chromosphere
C. J. Cannon 16, 314
- A Generalized Analytic Solution to the Equations of Transfer in a Magnetic Field
Jürgen Staude 18, 22
- Remarks on Some Recent Papers Concerning Line Formation in a Magnetic Field
Jürgen Staude 18, 24
- On the Solution of the Transfer Equation System for a Non-Scattering Medium with a Homogeneous Magnetic Field
J. M. Katz 20, 362
- The Effect of Two-Dimensional Macroscopic Velocity Fields on Models of the Lower Solar Chromosphere
C. J. Cannon 21, 82
- Formation of the Solar H α Profile
Stephen A. Schoolman 22, 344
- Empirical NLTE Analyses of Solar Spectral Lines. I: A Method and Some Applications to Earlier Analyses
Jan W. Wijnnga and Cornelis Zwaan 23, 265
- On the Choice of Boundary Conditions for Integration of Transfer Equations
J. M. Katz 24, 28
- On the Mean Depth of Line Formation in a Magnetic Field
Jürgen Staude 24, 255
- The Interpretation of Absorption-Line Shifts in the Solar Spectrum
R. I. Kostik and T. V. Orlova 26, 42
- Quantum Theory of Line Formation in a Magnetic Field
Egidio Landi Degl'Innocenti and Maurizio Landi Degl'Innocenti 27, 319 *Erratum 29, 528*
- Non-LTE Line Formation in a Magnetic Field. I: Non-Coherent Scattering and True Absorption
H. Domke and J. Staude 31, 279
- Non-LTE Line Formation in a Magnetic Field. II: The Influence of Non-Coherent Scattering on Line Contours
H. Domke and J. Staude 31, 291
- A Perturbative Solution of the Transfer Equations for the Stokes Parameters in a Magnetic Field
Egidio Landi Degl'Innocenti and Maurizio Landi Degl'Innocenti 31, 299
- Non-LTE Profiles of the Al I Autoionization Lines
G. D. Finn and J. T. Jefferies 34, 57

- Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. II: Computation of Stokes Parameter Profiles
A. Wittmann 35, 11
- Magnetoactive Lines in the Medium with the Velocity Gradient
V. M. Grigorjev and J. M. Katz 42, 21
- Helium Emission from Model Flare Layers
John L. Kulander 48, 287
- The Determination of Vector Magnetic Fields from Stokes Profiles
L. H. Auer, J. N. Heasley, and L. L. House 55, 47
- The Seven Components of $H\alpha$ and the 9873 MHz Line
A. Zelenka 58, 17
- Magneto-Optical Effects and the Determination of Vector Magnetic Fields from Stokes Profiles
M. Landolfi and E. Landi Degl'Innocenti 78, 355
- Magnetograph Response to Canopy-Type Fields
Harrison P. Jones and Ronald G. Giovanelli 79, 247
- The Determination of Vector Magnetic Fields in Prominences from the Observations of the Stokes Profiles in the D_3 Line of Helium
Egidio Landi Degl'Innocenti 79, 291
- Helium Radiation Diffusion in Prominences
N. A. Yakovkin, M. Yu. Zeldina, and Ch. Lhagvazhav 81, 339
- Polarization in Spectral Lines. II: A Unifying Theoretical Approach
E. Landi Degl'Innocenti 85, 3 *Erratum* 88, 391
- Asymmetries in Stokes Profiles of Magnetic Lines: a Linear Analysis in Terms of Velocity Gradients
E. Landi Degl'Innocenti and M. Landolfi 87, 221
- Polarization in Spectral Lines. III: Resonance Polarization in the Non-Magnetic, Collisionless Regime
E. Landi Degl'Innocenti 91, 1
- On the Excitation of Lower Levels of Singlet Helium in Quiescent Prominences
N. N. Morozhenko 92, 153
- On the Solution of the Radiative Transfer Equations for Polarized Radiation
E. Landi Degl'Innocenti and M. Landi Degl'Innocenti 97, 239
- Non-LTE Resonance Line Polarization with Partial Redistribution: The Solar Ca II K Line
G. J. Saliba 98, 1

Radio Bursts

Theory of Solar Bursts

- Tatsuo Takakura 1, 304 *Corrigenda* 3, 624 and 6, 336
- On a Possible Proton Origin for Type V Continuum Radiation from a Solar Flare
M. Friedman and S. M. Hamberger 8, 398
- Comment on the Note by Friedman and Hamberger
Z. Švestka 8, 400
- Observation of the Magnetic Structure of a Type IV Solar Radio Outburst
J. P. Wild 9, 260
- Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 (*Invited Review Paper*)
Z. Švestka and P. Simon 10, 3
- Motion of Ascending Prominences
H. Westin and L. Liszka 11, 409
- 80 MHz Observations of a Moving Type IV Solar Burst, March 1, 1969
A. C. Riddle 13, 448
- Positions and Motions of Solar Bursts at Decameter Wavelengths
M. R. Kundu, W. C. Erickson, P. D. Jackson, and J. Fainberg 14, 394
- Possible Long-Period Oscillations in Solar Radio Emission at Microwaves
Pierre Kaufmann 23, 178
- Quasi-Periodic Solar Radio Pulsations at Decimetric Wavelengths
B. L. Gotwols 25, 232
- The Role of Energetic Electrons in the Correlation of Meter and Decimeter Type III Bursts with 4 keV X-Ray Emission
S. W. Kahler 25, 435

- On Some Transient H α Features Associated with Metric Type III Bursts
F. Axisa, M.-J. Martres, M. Pick, and I. Soru-Escut 29, 163
- Polarization Inversions in the Radio Emission at 237 MHz of McMath Zone 11482
Paolo Santin 30, 159
- Two Types of Extremely Short Lasting Decimetric Bursts and Their Possible Relation to Processes in Solar Magnetic Traps
Øystein Elgarøy and Ole P. Sveen 32, 231
- Association of Solar Prominences and Coronal Magnetic Sheets from Their Observed Correlation with Type III Radiobursts
C. Mercier 33, 177
- Decrease of 2800 MHz Solar Radio Emission Associated with a Moving Dark Filament before the Flare of May 19, 1969
Arthur E. Covington 33, 439
- On a Suggested Explanation for Fine Structures Observed in Some Wide-Band Bursts
W. N.-C. Sy 34, 427
- Decameter Type IV Bursts Associated with Coronal Transients
T. E. Gergely and M. R. Kundu 34, 433
- Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations
K. Kai and K. V. Sheridan 35, 181
- A Coherent Radiation Mechanism for Type IV dm Radio Bursts
Jan Kuijpers 36, 157
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . I: First Event of 1973 January 11
R. T. Stewart, Marie K. McCabe, M. J. Koomen, R. T. Hansen, and G. A. Dulk 36, 203
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . II: Second Event of 1973 January 11
R. T. Stewart, R. A. Howard, F. Hansen, T. Gergely, and M. Kundu 36, 219
- On the Third Harmonic in Solar Radio Bursts
V. V. Zheleznyakov and E. Ya. Zlotnik 36, 443
- Plasma Emission Due to Isotropic Fast Electrons, and Types I, II and V Solar Radio Bursts
D. B. Melrose 43, 211
- A Distinctive Type of Ascending Prominence - 'Fountain'
E. Tandberg-Hanssen, R. T. Hansen, and A. C. Riddle 44, 417
- Report on the Solar Physics-Plasma Physics Workshop, held at Stanford University, 17-20 September 1974
P. A. Sturrock, P. J. Baum, J. M. Beckers, C. E. Newman, E. R. Priest, H. Rosenberg, D. F. Smith, and D. G. Wentzel (eds.) 46, 411
- Type II-IV Radio Bursts and Compact and Diffuse White-Light Clouds in the Outer Corona of December 14, 1971
Takeo Kosugi 48, 339
- White Light and Radio Studies of the Coronal Transient of 14-15 September 1973: I: Material Motions and Magnetic Field
G. A. Dulk, S. F. Smerd, R. M. MacQueen, J. T. Gosling, A. Magun, R. T. Stewart, K. V. Sheridan, R. D. Robinson, and S. Jacques 49, 369 *Erratum/Replacement Figure: Fig. 1 -53, 547*
- Two 'Negative Bursts' with Moving Filaments, 19 May 1969
C. Sawyer 51, 195 *Erratum 54, 516*
- Are 'Negative Bursts' Due to Absorption?
C. Sawyer 51, 203
- Noise Storms and Particular Photospheric Magnetic Structures
C. Zanelli and P. Zlobec 53, 497
- Radio and Soft X-Ray Evidence for Dense Non-Potential Magnetic Flux Tubes in the Solar Corona
R. T. Stewart and Joan Vorpahl 55, 111
- The Spectrum and Position of Solar Noise Storms at Decameter Wavelengths
Jérôme de la Noë and Tomas E. Gergely 55, 195
- A Study of Type V Solar Radio Bursts. I: Observations
R. D. Robinson 55, 459
- A Study of Type V Solar Radio Bursts. II. A Theoretical Model
R. D. Robinson 56, 405
- The Association of Nonthermal Electrons with Non-Flaring Coronal Transients
D. F. Webb and M. R. Kundu 57, 155

Structure and Evolution of Solar Radio Bursts at 26.4 MHz

Henry Sha-Lin Chen and Stanley D. Shawhan **57**, 205

Relationship between Type III-V Radio and Hard X-Ray Bursts

R. T. Stewart **58**, 121

The Relation between the Surges and Solar Radio Emission

I. N. Garczyńska, B. Rompolt, A. O. Benz, C. Slottje, A. Tlamicha, and C. Zanelli **77**, 277

Radio and Visible-Light Observations of a Coronal Arcade Transient

T. E. Gergely, M. R. Kundu, F. T. Erskine, III, C. Sawyer, W. J. Wagner, R. Illing, L. L. House, M. K. McCabe, R. T. Stewart, G. J. Nelson, M. J. Koomen, D. Michels, R. Howard, and N. Sheeley **90**, 161

Multiple Radio Echoes in the Solar Corona

E. P. Abranin, L. L. Bazelyan, V. V. Zaitsev, V. O. Rapoport, and Ya. G. Tsybko **91**, 383

Ejection of Chromospheric Material Associated with Injection of Electrons in the Solar Corona

N. Mein and Y. Avignon **95**, 331

Radio Spikes and the Fragmentation of Flare Energy Release

A. O. Benz **96**, 357

Correlation of Solar Decimetric Radio Bursts with X-Ray Flares

M. J. Aschwanden, H. J. Wiehl, A. O. Benz, and S. R. Kane **97**, 159

Rapid Fluctuations in the Position, Size, and Brightness of Intense Solar Metre-Wave Radio Sources

R. A. Duncan **97**, 173

Radio Bursts, Association with Flares
Detailed Analysis of Flares, Magnetic Fields and Activity in the Sunspot Group of Sept. 13-26, 1963

Harold Zirin and Susan Werner **1**, 66

The Sagamore Hill Solar Radio Observatory and the Event of August 28, 1966

J. P. Castelli and G. A. Michael **1**, 125

L'éruption d'importance 2 du 4 octobre 1965

G. Banos **1**, 397

Homology of Solar Flare-Associated Radio Events

A. D. Fokker **2**, 316

Decametric Radio Spectra and Positions during the Flare of August 28, 1966: 1522 UT

James W. Warwick **4**, 446

The X-Ray and Extreme Ultraviolet Radiation of the August 28, 1966 Proton Flare as Deduced from Sudden Ionospheric Disturbance Data

R. F. Donnelly **5**, 123

A Comparison of 3.3-mm Bursts and H α Emission during Flares

F. I. Shimabukuro **5**, 498

The Solar Flares of August 28 and 30, 1966

Harold Zirin and D. Russo Lackner **6**, 86

Solar Soft X-Rays and Solar Activity. I: Relationships between Reported Flares and Radio Bursts, and X-Ray Bursts

Richard G. Teske and Roger J. Thomas **8**, 348

On the Origin of Type II and IV Radio Sources during Flares Observed by a Radioheliograph on 80 MHz

L. Krivský **9**, 194

Flare-Time Sudden Enhancements of Low Frequency Field Strength and Associated Meter Wave Solar Radio Bursts

S. K. Alurkar and R. V. Bhonsle **9**, 198

Observation of the Magnetic Structure of a Type IV Solar Radio Outburst

J. P. Wild **9**, 260

Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 (Invited Review Paper)

Z. Švestka and P. Simon **10**, 3

The mm Wave Outbursts of November 1 and 2, 1968

Michael Anastassiades and Constantin Macris **10**, 188

Radio Evidence of Directive Shock-Wave Propagation in the Solar Corona

K. Kai **10**, 460

An Example of Radio and Optical Homologous Flares

K. P. White, III and T. J. Janssens **11**, 291

- Description of Mass Motions and Brightenings in a Class 2b Flare, August 8, 1968
T. J. Janssens and K. P. White, III **11**, 299
- The Flares of July 6 and 8, 1968
T. Fortini and M. Torelli **11**, 425
- The Polarization of Solar Radio Emission at 74 MHz: May 18-26, 1967
G. A. Harvey and L. R. McNarry **11**, 467
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. I: The Relationship of ~ 40 keV Electron to Energetic Proton and Relativistic Electron Emission by the Sun
R. P. Lin **12**, 266
- Sympathetic Radiobursts at mm-Wavelengths
G. Feix **13**, 227
- Variations in Solar Emission at 3.3 mm Wavelength and Their Relation to Flares
Earle B. Mayfield, John Higman, and Clifton Samson **13**, 372
- Major H α Flares in Centers of Activity with Very Small or No Spots
Helen W. Dodson and E. Ruth Hedeman **13**, 401
- Solar Activity at $\lambda = 15.8$ mm (19 GHz) during the Period 27 October-4 November 1968 and Its Relation to Proton Events
D. L. Croom and R. J. Powell **14**, 221
- Thermal Runaway as the Solar Flare Trigger Mechanism
S. W. Kahler and R. W. Kreplin **14**, 372
- Homologous Microwave Bursts and Associated Solar Flares
U. V. Gopala Rao **14**, 389
- Changes in Coronal Condensations Emission after Solar Bursts at Microwaves
Pierre Kaufmann, E. Scalise, Jr., and P. Marques dos Santos **15**, 195
- 71 GHz (4.2 mm) Solar Radio Bursts in the Period July 1967 to December 1969
D. L. Croom **15**, 414
- On the Characteristics of the Solar Active Regions Responsible for the Generation of Type III Radio Bursts at Hectometric Frequencies in August 1968
Kunitomo Sakurai **16**, 125
- Polarization Measurements of Solar Type III Radio Bursts at 25.3 MHz
Y. C. Chin, B. B. Lusignan, and P. C. W. Fung **16**, 135
- Soft Solar X-Rays and Solar Activity. IV: Some Evidence for the Altitude of X-Ray Source Volumes in Solar Flares
Richard G. Teske **17**, 181
- Observations of a Solar Radio Burst on September 27, 1969
Haruo Tanaka and Shinzo Énomé **17**, 408
- Identification of Two Distinctive Types of Centimeter Radio Bursts with Flare Location
John P. Hagen and Donald F. Neidig, Jr. **18**, 305 *Corrigendum 20*, 520
- Magnetic Fields, Bremsstrahlung and Synchrotron Emission in the Flare of 24 October 1969
H. Zirin, Gail Pruss, and Joan Vorpahl **19**, 463
- 19 GHz (1.58 cm) Solar Radio Bursts in the Period July 1967 to December 1969
D. L. Croom and R. J. Powell **20**, 136
- A Note on the Acceleration Phase of High-Energy Particles in the Solar Flare on 7 July, 1966
Kunitomo Sakurai **20**, 147
- Eclipse of Radio Emission on 7 March, 1970 at 10 cm Wavelength from the Active Region Associated with McMath Plage 10618
Earle B. Mayfield, Gary A. Chapman, and Ronald M. Straka **21**, 460
- Pencil Beam Observation of a Large Microwave Outburst at 94.8 GHz
J. R. Cogdell **22**, 147
- Observations and Comments for the Solar Event of 24 October, 1969
Arthur E. Covington **24**, 405
- Type III Solar Noise Observed below 100 kHz on OGO 3. I: Description of Events
N. Dunkel, R. A. Helliwell, and J. Vesecky **25**, 197
- X-Radiation ($E > 10$ keV), H α and Microwave Emission during the Impulsive Phase of Solar Flares
Joan A. Vorpahl **26**, 397
- Evidence for a Two-Component Injection of Cosmic Rays from the Solar Flare of 1969, March 30
I. D. Palmer and S. F. Smerd **26**, 460

Polarization Structure of a Solar Flare Region at 9.5 mm Wavelength

M. R. Kundu and T. P. McCullough 27, 182

The Time-Latitude Distribution of Solar Flares Accompanied by Type IV Radio Bursts during the Period 1956 to 1969

Michael D. Papagiannis, Christos S. Zerefos, and Christos C. Repapis 27, 208

On the S- and B-Components of Solar Radio and X-Emission and Their Relationships to Energetic Solar Events
A. Krüger 27, 217

Detailed Correlation of Type III Radio Bursts with H α Activity. I: Active Region of 22 May 1970

T. B. H. Kuiper and Jay M. Pasachoff 28, 187

The Solar Outburst on August 7, 1972 at 17 GHz and 35 GHz

E. Fürst, O. Hachenberg, and W. Hirth 28, 533

On Some Transient H α Features Associated with Metric Type III Bursts

F. Axisa, M.-J. Martres, M. Pick, and I. Soru-Escut 29, 163

Solar Active Regions at 9 and 3.5 mm Wavelengths under Disturbed Conditions

M. R. Kundu and Sou-Yang Liu 29, 409

19-20 May 1969, an Example of Type III Emission during the Impulsive Phase of Flares

Joan Vorpahl 29, 447

The Initial Stage of Development of Type IV Radio Bursts and the Relation to Expanding Magnetic Bottles
Kunitomo Sakurai 31, 483

Heliographic Longitude Distribution of the Flares Associated with Type III Bursts Observed at Kilometric Wavelengths

Hector Alvarez, Fred T. Haddock, and William H. Potter 31, 493

A Flare-Associated Thermal Burst in the mm-Wave Region

K. Akabane, H. Nakajima, K. Ohki, F. Moriyama, and T. Miyaji 33, 431

Fine Structure of a Solar Flare Region at 3.7 and 11.1 cm Wavelengths

M. R. Kundu, T. Velusamy, and R. H. Becker 34, 217

On the Role of the Magnetic Configuration of Flares for Production of Type III Solar Radio Bursts

F. Axisa 35, 207

Solar Longitude Dependence of Some Characteristics of Type III Radio Bursts from Metric to Hectometric Wavelengths

Kunitomo Sakurai 36, 171

Shock Waves Generated by the Intense Solar Flare of 1972, August 7, 15:00 UT

A. Maxwell and R. Rinehart 37, 437

Discontinuity in the Microwave Slowly Varying Component Observed at 20:02 UT, June 16, 1972

Arthur E. Covington 37, 153

Location of Radio Source at 35 GHz of 2145 UT 2 August 1972 Burst

Hideo Ogawa and Kin-Aki Kawabata 40, 159

Some Studies on Solar Microwave Bursts in Relation to the Phases of the Associated H α -Flares and Their Spectral Nature

S. K. Sarkar, T. Chattopadhyay, and M. K. Das Gupta 40, 411

Sunspot Motions, Flares and Type III Bursts in McMath 11482

H. Zirin and B. Lazareff 41, 425

Source Regions for Type II Radio Bursts

James C. Dodge 42, 445

Decameter Storm Radiation, I

Thomas E. Gergely and William C. Erickson 42, 467

A Model for the Development of a Solar Outburst Based on Observations with the Culgoora Radio Spectrograph and Heliograph

Keizo Kai 45, 217

Expansion of Chromospheric Matter in the Gradual Phase of Solar Flares

K. Ohki 45, 435

The Onset of Flares at the Meter Wavelengths

S. F. Smerd and G. A. Dulk 47, 285

Non-Thermal Processes during the 'Build-Up' Phase of Solar Flares and in Absence of Flares

S. R. Kane and M. Pick 47, 293

Hard X-Ray and Microwave Observations of a Sympathetic Flare (*Title only*)

K. Ohki 47, 305

- The Spatial Structure of a Solar Flare in Soft X-Rays and Centimetric Wavelengths
R. Pallavicini and G. S. Vaiana 49, 297
- H α Observations of the August 12, 1975 Type III-RS Bursts
Barry J. LaBonte 50, 201
- A Comparison of Positions and Sizes of Sources of Centimeter and X-Ray Bursts
M. R. Kundu, C. E. Alissandrakis, and S. W. Kahler 50, 429
- Some Studies on H α -Flares and Microwave Bursts in Relation to Sunspot Magnetic Configurations
M. K. Das Gupta, T. Chattopadhyay, and S. K. Sarkar 51, 409
- Locations of the Impulsive Bursts, Discussion
H. Zirin 53, 243
- Microwave Burst Spectra and Solar Flare Magnetic Fields
Donald F. Neidig, Jr. 54, 165
- Radio and Soft X-Ray Evidence for Dense Non-Potential Magnetic Flux Tubes in the Solar Corona
R. T. Stewart and Joan Vorpahl 55, 111
- A Study of Type V Solar Radio Bursts. I: Observations
R. D. Robinson 55, 459
- Manifestation of Pulsation Instability in Solar Radio Emission Preceding Proton Flares
M. M. Kobrin, A. I. Korshunov, S. I. Arbutov, V. V. Pakhomov, V. M. Fridman, and Yu. V. Tikhomirov 56, 359
- A Statistical Study of Moving Type IV Bursts Based on Culgoora Radioheliograph Observations
Keizo Kai 61, 187
- A Comparison of the Optical and Microwave Emissions of Some Major Solar Flares
Jean-René Roy 64, 143
- A Comparative Study of H α -Flares of Different Visual Features in Relation to Radio Bursts and Sunspots
M. K. Das Gupta, T. K. Das, and S. K. Sarkar 64, 323
- An Analysis of Type III Burst Occurrence in Spotless Regions
C. Zanelli, P. Zlobec, and U. Koren 65, 387
- On the Type of Spectra of S-Component Sources and Their Correlation with Flare Occurrence
P. Steffen 67, 89
- On the Distribution of Magnitudes of Solar Microwave Events
A. D. Fokker 67, 101
- Wide-Band Average Spectra of Solar Radio Bursts
M. K. Das Gupta, T. K. Das, and S. K. Sarkar 67, 109
- Observations of an Unusual Pair of Homologous Flares on March 17, 1970
Edward W. Cliver and Fred L. Wefer 71, 39
- Decameter Studies of the 5 September 1973 Flare
T. E. Gergely and M. R. Kundu 71, 65
- Second-Stage Acceleration in a Limb-Occulted Flare
H. S. Hudson, R. P. Lin, and R. T. Stewart 75, 245
- A Long-Enduring Multi-Source Burst at 17 GHz and Its Relation to a Type IV_{m-dm} Burst with Spectral Fine Features
Takeo Kosugi 75, 293
- Observations of a Post-Flare Radio Burst in X-Rays
Z. Švestka, R. T. Stewart, P. Hoyng, W. van Tend, L. W. Acton, A. H. Gabriel, C. G. Rapley, A. Boelee, E. C. Bruner, C. de Jager, H. LaFleur, G. Nelson, G. M. Simnett, H. F. van Beek, and W. J. Wagner 75, 305
- The Flare-Related Depression of the Noise Storm on May 5, 1978
A. Böhme and A. Krüger 76, 63
- Remote Flare Brightenings and Type III Reverse Slope Bursts
Frances Tang and R. L. Moore 77, 263
- Type II Solar Radio Events Observed in the Interplanetary Medium. I: General Characteristics
H. V. Cane, R. G. Stone, J. Fainberg, J. L. Steinberg, and S. Hoang 78, 187
- The Flare of December 17, 1980 Observed with High Time Resolution by a Digital CCD Camera
N. Kämpfer and W. Schöchlín 78, 215
- Thermal and Nonthermal Phenomena in Solar Flare Loops at 20 cm Wavelength and in X-Rays
E. J. Schmahl, M. R. Kundu, P. B. Landecker, and D. L. McKenzie 83, 3

- Optical Counterpart of the Radio Event Accompanying the 3B Flare of 13 May 1981
R. E. Loughhead, Wang Jia-Long, and R. A. Duncan **83**, 257 *Errata* 88, 391
- X-Ray and Radio Emissions in the Early Stages of Solar Flares
A. O. Benz, C. H. Barrow, B. R. Dennis, M. Pick, A. Raoult, and G. Simnett **83**, 267
- High-Resolution Observations of Solar Radio Bursts at 2, 6, and 20 cm Wavelength
Robert F. Willson **83**, 285
- Association between Gradual Hard X-Ray Emission and Metric Continua during Large Flares
L. Klein, K. Anderson, M. Pick, G. Trotter, N. Vilmer, and S. Kane **84**, 295
- Observations of a Compact Flare on 1981, September 7, in $H\alpha$, X-Ray, and Microwave Radiations (*Extended Abstract*)
Mitsuo Kanno, Hiroki Kurokawa, and the HINOTORI Group **86**, 193
- Spatial Characteristics of Microwave Bursts
M. R. Kundu **86**, 205
- Dual Frequency Observations of Flares with the VLA
George A. Dulk, Timothy S. Bastian, and Gordon J. Hurford **86**, 219
- A Flare Model Deduced from HINOTORI and Millimeterwave Interferometer Observations
Kin-Aki Kawabata, Hideo Ogawa, and Ikuro Suzuki **86**, 247
- Imaging of Impulsive Solar Flare Phenomena
A. Duijveman and P. Hoyng **86**, 279
- Particle Acceleration in the 1981, April 1, Flare
Hiroshi Nakajima **86**, 427
- Location of X-Ray and Microwave Sources
H. Hudson **86**, 444
- Radio, X-Ray, and Optical Observations of the Flare of June 13, 1980, at 6^h22^m UT
A. Kattenberg, M. Allaart, C. de Jager, A. Schadee, J. Schrijver, K. Shibasaki, Z. Švestka, and W. van Tend **88**, 315
- Properties of Flares Observed in the Mg I b₂ Line at 5172 Å
J. K. Lawrence, G. A. Chapman, and A. D. Herzog **89**, 341
- X-Ray, $H\alpha$, and Radio Observations of the Two-Ribbon Flare of 16 May, 1981
F. Fárník, J. Kaastra, B. Kálmán, M. Karlický, C. Slottje, and B. Valníček **89**, 355
- Properties of Metre-Wavelength Solar Bursts Associated with Interplanetary Type II Emission
R. D. Robinson, R. T. Stewart, and H. V. Cane **91**, 159
- Persistent 1.5 s Oscillations Superimposed to a Solar Burst Observed at Two mm-Wavelengths
A. M. Zodi, P. Kaufmann, and H. Zirin **92**, 283
- Characteristics of Flares Producing Metric Type II Bursts and Coronal Mass Ejections
S. Kahler, N. R. Sheeley, Jr., R. A. Howard, M. J. Koomen, and D. J. Michels **93**, 133
- Ejection of Chromospheric Material Associated with Injection of Electrons in the Solar Corona
N. Mein and Y. Avignon **95**, 331
- Simultaneous Microwave Observations of Solar Flares at 6 and 20cm Wavelengths Using the VLA
M. Melozzi, M. R. Kundu, and R. K. Shevgaonkar **97**, 345
- 21 May 1980 Flare Reivew (*Invited Review Paper*)
Cornelis de Jager and Zdeněk Švestka **100**, 435

Radio Bursts, Association with Non-Flare Phenomena (*see Radio Bursts*)

Radio Bursts, Decimeter (*see Radio Bursts*)

Radio Bursts, Dekameter (*see Radio Bursts, Meter-Wavelengths and Longer*)

Radio Bursts, Dynamic Spectrum

- The Sagamore Hill Solar Radio Observatory and the Event of August 28, 1966
J. P. Castelli and G. A. Michael **1**, 125
- Spectrum of Slowly Varying Component of Solar Radio Emission on Millimeter Wavelengths
Atsushi Tsuchiya and Kozo Takahashi **3**, 346
- Some Preliminary Results of Multi-Channel Radiospectrography
T. de Groot and J. van Nieuwkoop **4**, 332
- Decametric Radio Spectra and Positions during the Flare of August 28, 1966: 1522 UT
James W. Warwick **4**, 446

- The Spectrum of the Slowly Varying Component of Solar Radio Emission at Wavelengths of 3.3 mm - 21 cm
A. Tlamicha **5**, 377
- Determination of the Coronal Magnetic Field and the Radio-Emitting Electron Energy from a Type IV Solar Radio Burst
Reuven Ramaty and Richard E. Lingenfelter **5**, 531
- Spectra of Solar Microwave Bursts up to 35 GHz
Y. Shiomi **6**, 276
- Spectral Characteristics of Medium Sized Solar Radio Events
A. D. Fokker **8**, 376
- Type III Radio Bursts in the Outer Corona
J. K. Alexander, H. H. Malitson, and R. G. Stone **8**, 388
- Unpolarized Impulsive Solar Bursts Observed at 7 GHz
Pierre Kaufmann **9**, 166
- Flare-Time Sudden Enhancements of Low Frequency Field Strength and Associated Meter Wave Solar Radio Bursts
S. K. Alurkar and R. V. Bhonsle **9**, 198
- Trajectories Followed by U-Like Solar Radio Bursts
A. D. Fokker **11**, 92
- Expanding Arch Structure of a Solar Radio Outburst
K. Kai **11**, 310
- Gyro-Synchrotron Emission in a Magnetic Dipole Field for the Application to the Center-to-Limb Variation of Microwave Impulsive Bursts
Tatsuo Takakura and Eugenio Scalise, Jr. **11**, 434
- Comparison of Dynamic Radio Spectra of the September 2, 1966 Complex Burst Recorded at Culgoora and at Weissenau
H. Urbarz **13**, 458
- Solar Radio Spectra between 160 and 320 MHz
T. de Groot **14**, 176
- On the Determination of the Velocity of the Exciters of Type II Solar Radiobursts
H. G. van Bueren and M. Kuperus **14**, 208
- Positions and Motions of Solar Bursts at Decameter Wavelengths
M. R. Kundu, W. C. Erickson, P. D. Jackson, and J. Fainberg **14**, 394
- Type III Solar Radio Burst Storms Observed at Low Frequencies. I: Storm Morphology
Joseph Fainberg and R. G. Stone **15**, 222
- 71 GHz (4.2 mm) Solar Radio Bursts in the Period July 1967 to December 1969
D. L. Croom **15**, 414
- Type III Solar Radio Burst Storms Observed at Low Frequencies. II: Average Exciter Speed
Joseph Fainberg and R. G. Stone **15**, 433
- Identification of Two Distinctive Types of Centimeter Radio Bursts with Flare Location
John P. Hagen and Donald F. Neidig, Jr. **18**, 305 *Corrigendum* **20**, 520
- Solar Microwave Bursts as Indicators of the Occurrence of Solar Proton Emission
David L. Croom **19**, 152
- Gyro-Resonance Absorption of Plasma Waves in the Corona and the Fine Structure of Solar Radio Bursts
V. V. Zheleznyakov and E. Ya. Zlotnik **20**, 85
- A U-Type Solar Radio Burst Originating in the Outer Corona
R. G. Stone and Joseph Fainberg **20**, 106
- Spectral Features of Large Type IV Bursts and Interrelation to Solar-Terrestrial Phenomena
S. T. Akinyan, E. I. Mogilevsky, A. Böhme, and A. Krüger **20**, 112
- Spectral Radio Observations of a Solar Eclipse
R. M. Straka **21**, 469
- On the Temperature and Emission Measure of Thermal Radio Bursts
F. I. Shimabukuro **23**, 169
- Slowly Varying Component Spectrum of the Solar Radio Emission at Millimetre Wavelengths
V. A. Efanov, A. G. Kislyakov, and I. G. Moiseev **24**, 142
- Frequency Separation in Structure of Solar Continuum Radio Bursts
Hans Rosenberg and Guy Tarnstrom **24**, 210

Results of Observation of Spectra and Polarization of Meter Solar Radio Emission with High Time Resolution

May-June, 1969

G. P. Chernov, I. M. Chertok, V. V. Fomichev, and A. K. Markeev **24**, 215**The Time Behavior of the Continua during the Initial Stage of Type IV Bursts**A. Böhme **24**, 457**A Possibly Direct Measurement of Coronal Magnetic Field Strengths**Hans Rosenberg **25**, 188**Type III Solar Noise Observed below 100 kHz on OGO 3. I: Description of Events**N. Dunckel, R. A. Helliwell, and J. Vesecky **25**, 197**Peculiar Absorption and Emission Microstructures in the Type IV Solar Radio Outburst of March 2, 1970**C. Slottje **25**, 210 *Addendum 26*, 259**Quasi-Periodic Solar Radio Pulsations at Decimetric Wavelengths**B. L. Gotwols **25**, 232**Spectral Behaviour and Proton Effects of the Type IV Broad-Band Continua**A. Böhme **25**, 478**Some Studies on the Solar Microwave Bursts in Relation to the Slowly Varying Component**M. K. Das Gupta and S. K. Sarkar **26**, 378**Meter-Wavelength Observations of the Solar Radio Burst Storm of August 17-22, 1968**R. T. Stewart and N. R. Labrum **27**, 192**The Intensity Decrease of Microwave Bursts**E. Fürst **28**, 159**Observations on the Time and Frequency Structure of Solar Decameter Radio Bursts**Ch. V. Sastry **28**, 197**The Prevalence of Second Harmonic Radiation in Type III Bursts Observed at Kilometric Wavelengths**F. T. Haddock and Hector Alvarez **29**, 183**A High Resolution Study in Time, Position, Intensity, and Frequency of the Radio Event of January 14, 1971**C. Caroubalos, M. Pick, H. Rosenberg, and C. Slottje **30**, 473**Two Types of Extremely Short Lasting Decimetric Bursts and Their Possible Relation to Processes in Solar Magnetic Traps**Øystein Elgarøy and Ole P. Sveen **32**, 231**A Damped Train of Regular Metre-Wave Pulses from the Sun**D. J. McLean and K. V. Sheridan **32**, 485**Kilometer-Wave Type III Burst: Harmonic Emission Revealed by Direction and Time of Arrival**Hector Alvarez, Fred T. Haddock, and William H. Potter **34**, 413 *Erratum 36*, 534**Decameter Type IV Bursts Associated with Coronal Transients**T. E. Gergely and M. R. Kundu **34**, 433**Solar Longitude Dependence of Some Characteristics of Type III Radio Bursts from Metric to Hectometric Wavelengths**Kunitomo Sakurai **36**, 171**Meter and Decameter Wavelength Positions of Solar Bursts of July 31-August 7, 1972**M. R. Kundu and W. C. Erickson **36**, 179**The Third Harmonic of Type III Solar Radio Bursts**Tatsuo Takakura and Shahinaz Yousef **36**, 451**Shock Waves Generated by the Intense Solar Flare of 1972, August 7, 15:00 UT**A. Maxwell and R. Rinehart **37**, 437**Solar Radio Pulsations at Decametric Wavelengths**A. Achong **37**, 477**Use of Colour to Display the Circular Polarization in Solar Dynamic Spectra**S. Suzuki **38**, 3**Type III Solar Radio Bursts Observed at 169 MHz: Height and Relative Positions in Pairs**C. Mercier and H. Rosenberg **39**, 193**Polarization Features of Type IV Bursts**A. Böhme, F. Fürstenberg, and A. Krüger **39**, 207**Frequency and Time Splitting of Decameter Solar Radio Bursts. I: Elementary Events**L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **39**, 213

- Frequency and Time Splitting of Decameter Solar Radio Bursts. II: Chains
L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **39**, 223
- Some Studies on Solar Microwave Bursts in Relation to the Phases of the Associated H α -Flares and Their Spectral Nature
S. K. Sarkar, T. Chattopadhyay, and M. K. Das Gupta **40**, 411
- An Example of a Fundamental Type IIIb Radio Burst
R. T. Stewart **40**, 417
- Type IIIb Radio Bursts: 80 MHz Source Position and Theoretical Model
Tatsuo Takakura and Shahinaz Yousef **40**, 421
- Spectral Distributions of Microwave Bursts
D. A. Guidice and J. P. Castelli **44**, 155
- Observations of a Complex Solar Radio Burst with Fine Structure on 3 May 1973
G. P. Chernov, O. S. Korolev, and A. K. Markeev **44**, 435
- Fiber Bursts Concurrent with a Weak Noise Storm
J. Kuijpers and C. Slottje **46**, 247
- Kilometric Type III Burst Enhancements Associated with Interplanetary Shocks
Nicholas Dunckel **46**, 461
- Fundamental and Harmonic Radiation in Solar Type III Bursts
S. F. Smerd **46**, 493
- Chains of Type I Stormbursts
T. de Groot, J. Loonen, and C. Slottje **48**, 321
- Microscopic Spectral Features in Solar Decametric Bursts and Coronal Irregularities
H. S. Sawant, R. V. Bhonsle, and S. K. Alurkar **50**, 481
- Interplanetary Baseline Observations of Type III Solar Radio Bursts
R. R. Weber, R. J. Fitzenreiter, J. C. Novaco, and J. Fainberg **54**, 431
- The Spectrum and Position of Solar Noise Storms at Decameter Wavelengths
Jérôme de la Noë and Tomas E. Gergely **55**, 195
- A Study of Type V Solar Radio Bursts. I: Observations
R. D. Robinson **55**, 459
- Low Frequency Spectra of Type III Solar Radio Bursts
Richard R. Weber **59**, 377
- Fine Structure of the S-Component Spectrum of the Solar Radio Emission in the Frequency Range 5.0-7.0 GHz
N. S. Kaverin, M. M. Kobrin, A. I. Korshunov, and V. V. Shushunov **63**, 379
- A Comparison of the Optical and Microwave Emissions of Some Major Solar Flares
Jean-René Roy **64**, 143
- A Statistical Investigation of Microwave Burst Spectra for the Determination of Source Inhomogeneities
W. Schoechlin and A. Magun **64**, 349
- Variations of Type III Burst Parameters during a Decametric Solar Storm
E. P. Abranin, L. L. Baselyan, V. O. Rapoport, and Ya. G. Tsybko **66**, 333
- Positions of Solar Storm Burst Sources by Observations with a Heliograph Based on the UTR-2 Antenna at 25 MHz
E. P. Abranin, L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **66**, 393
- On the Type of Spectra of S-Component Sources and Their Correlation with Flare Occurrence
P. Steffen **67**, 89
- Fine Structure in Fast Drift Storm Bursts
D. McConnell and G. R. A. Ellis **69**, 161
- A Study of the Parameters of Individual Type-I Bursts
A. Kattenberg and G. van der Burg **77**, 231
- Spectral Characteristics of Solar S Bursts
D. McConnell **78**, 253
- Microwave Emission from Hot X-Ray Kernels in Solar Flares
V. V. Zheleznyakov and Yu. V. Tikhomirov **81**, 121
- On the Spectra of Type-III Solar Radio Bursts Observed at Low Frequencies
Héctor Álvarez **81**, 355

- Spectral Evidence of Type II Shock Influence on Razin-Cutoff Frequency in the Decametric Type IV Continuum
S. S. Degaonkar and H. W. Urbarz **84**, 285
- Zebra Pattern Flux Density Observation during the Type IV Burst on October 12, 1981
H. Aurass and G. P. Chernov **84**, 339
- Evidence for Arc Sec Radio Burst Sources in the Upper Corona
David McConnell **84**, 361
- X-Ray, H α , and Radio Observations of the Two-Ribbon Flare of 16 May, 1981
F. Fárník, J. Kaastra, B. Kálmán, M. Karlický, C. Slottje, and B. Valníček **89**, 355
- Millisecond Structures in Solar Radio Emission Close to 264 MHz
C. H. Barrow, R. S. Flagg, and M. Perrenoud **90**, 111
- Properties of Metre-Wavelength Solar Bursts Associated with Interplanetary Type II Emission
R. D. Robinson, R. T. Stewart, and H. V. Cane **91**, 159
- Harmonic Components of Decametric Solar Radio Bursts
Ya. G. Tsybko **92**, 299
- Narrowband dm-Spikes as Indication of Flare Mass Ejection
M. Karlický **92**, 329
- Different Time Constants of Solar Decimetric Bursts in the Range 100-1000 MHz
H. J. Wiehl, A. O. Benz, and M. J. Aschwanden **95**, 167
- Velocities of Type II Solar Radio Events
R. D. Robinson **95**, 343
- Great Microwave Bursts and Hard X-Rays from Solar Flares
Herbert J. Wiehl, David A. Batchelor, Carol Jo Crannell, Brian R. Dennis, Phillip N. Price, and Andreas Magun **96**, 339
- Radio Spikes and the Fragmentation of Flare Energy Release
A. O. Benz **96**, 357
- Correlation of Solar Decimetric Radio Bursts with X-Ray Flares
M. J. Aschwanden, H. J. Wiehl, A. O. Benz, and S. R. Kane **97**, 159
- Radio Bursts, Meter-Wavelengths and Longer (m, dkm, hm, km)**
- Homology of Solar Flare-Associated Radio Events
A. D. Fokker **2**, 316
- The Starting Frequencies of Type III Bursts
J. McKim Malville **2**, 484
- Some Preliminary Results of Multi-Channel Radiospectrography
T. de Groot and J. van Nieuwkoop **4**, 332
- Decametric Radio Spectra and Positions during the Flare of August 28, 1966: 1522 UT
James W. Warwick **4**, 446
- A Model for Type-IV Emission in the Solar Burst of June 9, 1959 at Decametric Wavelengths
James W. Warwick **5**, 111
- Spectral Characteristics of Medium Sized Solar Radio Events
A. D. Fokker **8**, 376
- Flare-Time Sudden Enhancements of Low Frequency Field Strength and Associated Meter Wave Solar Radio Bursts
S. K. Alurkar and R. V. Bhonsle **9**, 198
- Observations on the Time Structure of Solar Radio Bursts at a Wavelength of 12m
Ch. V. Sastry **10**, 429
- Radio Evidence of Directive Shock-Wave Propagation in the Solar Corona
K. Kai **10**, 460
- Trajectories Followed by U-Like Solar Radio Bursts
A. D. Fokker **11**, 92
- Pulsating Radio Emissions from the Solar Corona
A. Abrami **11**, 104
- Expanding Arch Structure of a Solar Radio Outburst
K. Kai **11**, 310
- The Polarization of Solar Radio Emission at 74 MHz: May 18-26, 1967
G. A. Harvey and L. R. McNarry **11**, 467

- Comparison of Dynamic Radio Spectra of the September 2, 1966 Complex Burst Recorded at Culgoora and at Weissenau
H. Urbarz **13**, 458
- Solar Radio Spectra between 160 and 320 MHz
T. de Groot **14**, 176
- Positions and Motions of Solar Bursts at Decameter Wavelengths
M. R. Kundu, W. C. Erickson, P. D. Jackson, and J. Fainberg **14**, 394
- Type III Solar Radio Burst Storms Observed at Low Frequencies. I: Storm Morphology
Joseph Fainberg and R. G. Stone **15**, 222
- Type III Solar Radio Burst Storms Observed at Low Frequencies. II: Average Exciter Speed
Joseph Fainberg and R. G. Stone **15**, 433
- On the Characteristics of the Solar Active Regions Responsible for the Generation of Type III Radio Bursts at Hectometric Frequencies in August 1968
Kunitomo Sakurai **16**, 125
- Polarization Measurements of Solar Type III Radio Bursts at 25.3 MHz
Y. C. Chin, B. B. Lusignan, and P. C. W. Fung **16**, 135
- Type III Solar Radio Burst Storms Observed at Low Frequencies. III: Streamer Density, Inhomogeneities, and Solar Wind Speed
Joseph Fainberg and R. G. Stone **17**, 392
- Observations of a Solar Radio Burst on September 27, 1969
Haruo Tanaka and Shinzo Énomé **17**, 408
- A U-Type Solar Radio Burst Originating in the Outer Corona
R. G. Stone and Joseph Fainberg **20**, 106
- A Model for Drift Pair and Hook Burst Emission from the Solar Corona
W. K. Yip **24**, 197
- Frequency Separation in Structure of Solar Continuum Radio Bursts
Hans Rosenberg and Guy Tarnstrom **24**, 210
- Results of Observation of Spectra and Polarization of Meter Solar Radio Emission with High Time Resolution: May-June, 1969
G. P. Chernov, I. M. Chertok, V. V. Fomichev, and A. K. Markeev **24**, 215
- A Possibly Direct Measurement of Coronal Magnetic Field Strengths
Hans Rosenberg **25**, 188
- Type III Solar Noise Observed below 100 kHz on OGO 3. I: Description of Events
N. Dunckel, R. A. Helliwell, and J. Vesecky **25**, 197
- Peculiar Absorption and Emission Microstructures in the Type IV Solar Radio Outburst of March 2, 1970
C. Slotje **25**, 210 *Addendum 26*, 259
- The Role of Energetic Electrons in the Correlation of Meter and Decimeter Type III Bursts with 4 keV X-Ray Emission
S. W. Kahler **25**, 435
- A Search of a Connection between the Polarization of Decam-Type III Bursts and Magnetic Fields in Different Heights of the Solar Atmosphere
I. M. Chertok, V. V. Fomichev, A. Krüger, and W. Willimczik **25**, 452
- Spectral Behaviour and Proton Effects of the Type IV Broad-Band Continua
A. Böhme **25**, 478
- Equatorial Coronal Arches and Geomagnetic Disturbance
C. Sawyer and Shirley F. Hansen **26**, 370
- Evidence for a Common Origin of the Electrons Responsible for the Impulsive X-Ray and Type III Radio Bursts
S. R. Kane **27**, 174
- Meter-Wavelength Observations of the Solar Radio Burst Storm of August 17-22, 1968
R. T. Stewart and N. R. Labrum **27**, 192
- Direct Observations of Low-Energy Solar Electrons Associated with a Type III Solar Radio Burst
L. A. Frank and D. A. Gurnett **27**, 446
- Detailed Correlation of Type III Radio Bursts with H α Activity. I: Active Region of 22 May 1970
T. B. H. Kuiper and Jay M. Pasachoff **28**, 187
- Observations on the Time and Frequency Structure of Solar Decameter Radio Bursts
Ch. V. Sastry **28**, 197

- Non-Existence of Linear Polarization in Type III Solar Bursts at 80 MHz
R. J.-M. Grogard and D. J. McLean 29, 149
- On Some Transient H α Features Associated with Metric Type III Bursts
F. Axisa, M.-J. Martres, M. Pick, and I. Soru-Escaut 29, 163
- The Prevalence of Second Harmonic Radiation in Type III Bursts Observed at Kilometric Wavelengths
F. T. Haddock and Hector Alvarez 29, 183
- Solar Wind Density Model from km-Wave Type III Bursts
Hector Alvarez and F. T. Haddock 29, 197
- 19-20 May 1969, an Example of Type III Emission during the Impulsive Phase of Flares
Joan Vorpahl 29, 447
- Interferometer Observation of Pulsating Sources Associated with a Type IV Solar Radio Burst
Keizo Kai and Akio Takayanagi 29, 461
- Decay Time of Type III Solar Bursts Observed at Kilometric Wavelengths
Hector Alvarez and F. T. Haddock 30, 175
- A High Resolution Study in Time, Position, Intensity, and Frequency of the Radio Event of January 14, 1971
C. Caroubalos, M. Pick, H. Rosenberg, and C. Slottje 30, 473
- A Theory of the Origin of the Split Pair Burst Emission from the Solar Corona
W. K. Yip 30, 513
- The Initial Stage of Development of Type IV Radio Bursts and the Relation to Expanding Magnetic Bottles
Kunitomo Sakurai 31, 483
- Heliographic Longitude Distribution of the Flares Associated with Type III Bursts Observed at Kilometric Wavelengths
Hector Alvarez, Fred T. Haddock, and William H. Potter 31, 493
- Characteristics of Type III Exciters Derived from Low Frequency Radio Observations
Larry G. Evans, J. Fainberg, and R. G. Stone 31, 501
- A Damped Train of Regular Metre-Wave Pulses from the Sun
D. J. McLean and K. V. Sheridan 32, 485
- Detailed Comparison of Type III Radio Bursts with H α Activity. II: The Isolated Type III Activity of March and April, 1971
T. B. H. Kuiper 33, 461
- Kilometer-Wave Type III Burst: Harmonic Emission Revealed by Direction and Time of Arrival
Hector Alvarez, Fred T. Haddock, and William H. Potter 34, 413 *Erratum* 36, 534
- Decameter Type IV Bursts Associated with Coronal Transients
T. E. Gergely and M. R. Kundu 34, 433
- The Coronal Disturbance of 1972, August 12
Anthony C. Riddle, Einar Tandberg-Hanssen, and Richard T. Hansen 35, 171
- Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations
K. Kai and K. V. Sheridan 35, 181
- Solar Longitude Dependence of Some Characteristics of Type III Radio Bursts from Metric to Hectometric Wavelengths
Kunitomo Sakurai 36, 171
- Meter and Decameter Wavelength Positions of Solar Bursts of July 31-August 7, 1972
M. R. Kundu and W. C. Erickson 36, 179
- Pairs of Non Fundamental-Harmonic Type III Bursts
C. Caroubalos, J. Heyvaerts, M. Pick, and G. Trottet 37, 205
- Solar Radio Pulsations at Decametric Wavelengths
A. Achong 37, 477
- Comparison of Polarization Characteristics of Decametric Type III Solar Radio Bursts at Two Closely Spaced Frequencies
S. K. Mattoo and R. V. Bhonsle 38, 217
- Type III Solar Radio Bursts Observed at 169 MHz: Height and Relative Positions in Pairs
C. Mercier and H. Rosenberg 39, 193
- Frequency and Time Splitting of Decameter Solar Radio Bursts. I: Elementary Events
L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko 39, 213

- Frequency and Time Splitting of Decameter Solar Radio Bursts. II: Chains
L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **39**, 223
- Harmonic Ratios of Inverted-U Type III Bursts
R. T. Stewart **39**, 451
- Type IIb Radio Bursts: 80 MHz Source Position and Theoretical Model
Tatsuo Takakura and Shahinaz Yousef **40**, 421
- Decameter Storm Radiation, II
T. E. Gergely and M. R. Kundu **41**, 163
- The Necessity of Fundamental Emission in Type III Bursts
Dean F. Smith and William D. Davis **41**, 439
- Radio Evidence for an Expanding Magnetic Arch beyond 20 Solar Radii
R. G. Stone and Joseph Fainberg **42**, 179
- Decameter Storm Radiation, I
Thomas E. Gergely and William C. Erickson **42**, 467
- Small-Scale Inhomogeneities in the Solar Corona: Evidence from Meter- λ Radio Bursts
D. B. Melrose **43**, 79
- Observations of a Complex Solar Radio Burst with Fine Structure on 3 May 1973
G. P. Chernov, O. S. Korolev, and A. K. Markeev **44**, 435
- Fast Solar Electrons, Interplanetary Plasma and km-Wave Type-III Radio Bursts Observed from the IMP-6 Spacecraft
Hector Alvarez, Robert P. Lin, and Samuel J. Bame **44**, 485
- Evidence of Large Scale Diverging Paths in the Solar Corona for Type III Bursts Exciters
C. Mercier **45**, 169
- The Solar Elongation Distribution of Low-Frequency Radio Bursts
M. L. Kaiser **45**, 181
- A Model for the Development of a Solar Outburst Based on Observations with the Culgoora Radio Spectrograph and Heliograph
Keizo Kai **45**, 217
- Solar Type III Burst Profiles at Decametre-Wave Frequencies. I: Observations
C. H. Barrow and A. Achong **45**, 459
- Solar Type III Burst Profiles at Decametre-Wave Frequencies. II: Exciter
A. Achong and C. H. Barrow **45**, 467
- The Solar Radio Event of January 14, 1971. Position and Polarization Behaviour in the Middle Corona
A. Abrami **46**, 229
- Fiber Bursts Concurrent with a Weak Noise Storm
J. Kuijpers and C. Slotje **46**, 247
- Quantitative Comparisons of Type III Radio Burst Intensity and Fast Electron Flux at 1 AU
R. J. Fitzenreiter, L. G. Evans, and R. P. Lin **46**, 437
- Generation of Solar Type III Bursts at the 2nd Harmonic (*Abstract only*)
Paul J. Kellogg and R. P. Lin **46**, 447
- Tracking of Kilometric-Wave Type III Solar Bursts in Elevation and Elongation and Apparent Source Sizes
Paul J. Kellogg **46**, 449
- Kilometric Type III Burst Enhancements Associated with Interplanetary Shocks
Nicholas Dunckel **46**, 461
- Directivity of Low Frequency Solar Type III Radio Bursts
R. J. Fitzenreiter, J. Fainberg, and R. B. Bundy **46**, 465
- Direction Finding Measurements of Type III Bursts in Both Elevation and Azimuth (*Abstract only*)
M. M. Baumbach, W. S. Kurth, and D. A. Gurnett **46**, 475
- Interplanetary Scattering of Fast Solar Electrons Deduced from Type III Bursts Observed at Low Frequencies
H. Alvarez and R. P. Lin **46**, 477
- Preliminary Results on the Apparent Size of the Sources of Type III Bursts Observed at Low Frequencies
Hector Alvarez **46**, 483
- The Onset of Flares at the Meter Wavelengths
S. F. Smerd and G. A. Dulk **47**, 285

Chains of Type I Stormbursts

T. de Groot, J. Loonen, and C. Slottje **48**, 321

A Decameter Type II Burst Associated with a behind-the-limb Flare

Tomas E. Gergely and Mukul R. Kundu **48**, 357

Direction-Finding Measurements of Type III Radio Bursts out of the Ecliptic Plane

Mark M. Baumbach, William S. Kurth, and Donald A. Gurnett **48**, 361

White Light and Radio Studies of the Coronal Transient of 14-15 September 1973: I: Material Motions and Magnetic Field

G. A. Dulk, S. F. Smerd, R. M. MacQueen, J. T. Gosling, A. Magun, R. T. Stewart, K. V. Sheridan, R. D. Robinson, and S. Jacques **49**, 369 *Erratum/Replacement Figure: Fig. 1 - 53, 547*

Microscopic Spectral Features in Solar Decametric Bursts and Coronal Irregularities

H. S. Sawant, R. V. Bhonsle, and S. K. Alurkar **50**, 481

Two 'Negative Bursts' with Moving Filaments, 19 May 1969

C. Sawyer **51**, 195 *Erratum 54, 516*

The Association of Nonthermal Electrons with Non-Flaring Coronal Transients

D. F. Webb and M. R. Kundu **57**, 155

Angular Sizes of Stria-Burst Sources in the Range 24-26 MHz

E. P. Abranin, L. L. Bazelyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **57**, 229

Meter Wavelength Pulsating Bursts during the May 21, 1972, Solar Noise Storm

K. F. Tapping **59**, 145

Wave Ducting of Solar Metre-Wave Radio Emission as an Explanation of Fundamental/Harmonic Source Coincidence and Other Anomalies

R. A. Duncan **63**, 389

About the Observed Brightness Distribution of Solar Radio Bursts on Decameter Wavelengths and a Possible Effect from the Ionosphere

J. L. Steinberg, M. Poquérousse, and S. Hoang **64**, 359

Shock Waves and Type II Radiobursts in the Interplanetary Medium

A. Boischot, A. C. Riddle, J. B. Pearce, and J. W. Warwick **65**, 397

Variations of Type III Burst Parameters during a Decametric Solar Storm

E. P. Abranin, L. L. Baselyan, V. O. Rapoport, and Ya. G. Tsybko **66**, 333

Observations and Interpretation of Solar Decameter Type IIb Radio Bursts

V. Krishan, K. R. Subramanian, and Ch. V. Sastry **66**, 347

Positions of Solar Storm Burst Sources by Observations with a Heliograph Based on the UTR-2 Antenna at 25 MHz

E. P. Abranin, L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **66**, 393

Wide-Band Average Spectra of Solar Radio Bursts

M. K. Das Gupta, T. K. Das, and S. K. Sarkar **67**, 109

Estimation of Coronal Magnetic Field from Razin Effect in Solar Decametric Continuum Burst

R. V. Bhonsle and S. S. Degaonkar **68**, 339

Fine Structure in Fast Drift Storm Bursts

D. McConnell and G. R. A. Ellis **69**, 161

Decameter Studies of the 5 September 1973 Flare

T. E. Gergely and M. R. Kundu **71**, 65

The Flare-Related Depression of the Noise Storm on May 5, 1978

A. Böhme and A. Krüger **76**, 63

Radio Echo and Sporadic Radiation Scattering in the Solar Corona

E. P. Abranin, L. L. Bazelyan, V. V. Zaitsev, V. O. Rapoport, and Ya. G. Tsybko **78**, 179

Spectral Characteristics of Solar S Bursts

D. McConnell **78**, 253

Positional Characteristics of Meter-Decameter Wavelength Bursts Associated with Hard X-Ray Bursts

M. R. Kundu, T. E. Gergely, and S. R. Kane **79**, 107

Preliminary Observations of Solar Sources with the Culgoora Radioheliograph Operating at Four Frequencies

K. V. Sheridan, N. R. Labrum, W. J. Payten, G. J. Nelson, and E. R. Hill **83**, 167

Optical Counterpart of the Radio Event Accompanying the 3B Flare of 13 May 1981

R. E. Loughhead, Wang Jia-Long, and R. A. Duncan **83**, 257 *Errata 88, 391*

First Results from the Clark Lake Multifrequency Radioheliograph

M. R. Kundu, W. C. Erickson, T. E. Gergely, M. J. Mahoney, and P. J. Turner 83, 385

Association between Gradual Hard X-Ray Emission and Metric Continua during Large Flares

L. Klein, K. Anderson, M. Pick, G. Trotter, N. Vilmer, and S. Kane 84, 295

Evidence for Arc Sec Radio Burst Sources in the Upper Corona

David McConnell 84, 361

Dependence of Radio Emission in Large H α Flares 1967-1970 upon the Orientation of the Local Solar Magnetic Field

Edmond C. Roelof, Helen W. Dodson, and E. Ruth Hedeman 85, 339

Millisecond Structures in Solar Radio Emission Close to 264 MHz

C. H. Barrow, R. S. Flagg, and M. Perrenoud 90, 111

Solar Radio Burst and *in situ* Determination of Interplanetary Electron Density

J.-L. Bougeret, J. H. King, and R. Schween 90, 401

Properties of Metre-Wavelength Solar Bursts Associated with Interplanetary Type II Emission

R. D. Robinson, R. T. Stewart, and H. V. Cane 91, 159

Multiple Radio Echoes in the Solar Corona

E. P. Abranin, L. L. Bazelyan, V. V. Zaitsev, V. O. Rapoport, and Ya. G. Tsybko 91, 383

Harmonic Components of Decametric Solar Radio Bursts

Ya. G. Tsybko 92, 299

Narrowband dm-Spikes as Indication of Flare Mass Ejection

M. Karlický 92, 329

The Relation between Brightness Fluctuations and Polarization of Solar Metre-Wave Emission

R. A. Duncan 92, 363

On the Origin of Continuum Emission during Decametric Solar Noise Storms

B. N. Levin and V. O. Rapoport 96, 371

Rapid Fluctuations in the Position, Size, and Brightness of Intense Solar Metre-Wave Radio Sources

R. A. Duncan 97, 173

Radio Bursts, Microwave (mm, cm)

The Distribution of the 9 cm Radio Emission over the Solar Disk during the Sunspot Minimum

J. Roosen and T. Goh 1, 242

Occultation of a Noise Storm Source during the Partial Solar Eclipse of May 20, 1966

V. Letfus, A. Tlamicha, and B. Valníček 1, 474

A Study of Energetic Solar Flare X-Rays

R. L. Arnoldy, S. R. Kane, and J. R. Winckler 2, 171

Homology of Solar Flare-Associated Radio Events

A. D. Fokker 2, 316

An Index of Impulsiveness for 2800 MHz Impulsive Solar Noise Bursts

D. Basu and A. E. Covington 5, 102

The X-Ray and Extreme Ultraviolet Radiation of the August 28, 1966 Proton Flare as Deduced from Sudden Ionospheric Disturbance Data

R. F. Donnelly 5, 123

A Comparison of 3.3-mm Bursts and H α Emission during Flares

F. I. Shimabukuro 5, 498

Solar Limb Brightening and Enhancement Measurements at 1.2 mm

R. A. Newstead 6, 56

Interpretation of Time Characteristics of Solar X-Ray Bursts Referring to Associated Microwave Bursts

Tatsuo Takakura 6, 133

Observation of the Solar Soft X-Ray Component: Study of Its Relation to Transient and Slowly-Varying Phenomena Observed at Other Wavelengths

Richard G. Teske 6, 193

Spectra of Solar Microwave Bursts up to 35 GHz

Y. Shiomi 6, 276

High-Resolution Observations of Solar Radio Bursts with Multi-Element Compound Interferometers at 3.75 and 9.4 GHz

Shinzo Enomé, Takakiyo Kakinuma, and Haruo Tanaka 6, 428

- Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. I: The Quiet Component of the 9.1-cm Emission and the 'M-Regions'
J. Roosen **7**, 448
- Microwave and Hard X-Ray Bursts from Solar Flares
Stephen S. Holt and Reuven Ramaty **8**, 119
- Homology of X-Ray Bursts
Š. Pintér **8**, 149
- Solar Soft X-Rays and Solar Activity. I: Relationships between Reported Flares and Radio Bursts, and X-Ray Bursts
Richard G. Teske and Roger J. Thomas **8**, 348
- Spectral Characteristics of Medium Sized Solar Radio Events
A. D. Fokker **8**, 376
- Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. III: Sunspots and Geomagnetic Activity
J. Roosen **8**, 450
- Unpolarized Impulsive Solar Bursts Observed at 7 GHz
Pierre Kaufmann **9**, 166
- A Magnetohydrodynamic Approach for Interpreting Solar Polarization Bursts at 7 GHz
O. T. Matsuura **9**, 173
- Absolute Calibration Method and Technique of the Daily Patrol of the Solar Flux Density at 1470 MHz
J. Priebe **9**, 235
- Pencilbeam Observation of Solar Bursts at 36 GHz
G. Feix **9**, 265
- On a Relation between the Indices of Solar Activity in the Photosphere and the Corona
John Xanthakis **10**, 168
- The mm Wave Outbursts of November 1 and 2, 1968
Michael Anastassiades and Constantin Macris **10**, 188
- Solar X-Ray Bursts at Energies Less Than 10 keV Observed with OSO-4
J. L. Culhane and K. J. Phillips **11**, 117
- An Example of Radio and Optical Homologous Flares
K. P. White, III and T. J. Janssens **11**, 291
- Description of Mass Motions and Brightenings in a Class 2b Flare, August 8, 1968
T. J. Janssens and K. P. White, III **11**, 299
- Gyro-Synchrotron Emission in a Magnetic Dipole Field for the Application to the Center-to-Limb Variation of Microwave Impulsive Bursts
Tatsuo Takakura and Eugenio Scalise, Jr. **11**, 434
- The 3.3-mm Brightness Distribution of the Quiet Sun
F. I. Shimabukuro **12**, 438
- Sympathetic Radiobursts at mm-Wavelengths
G. Feix **13**, 227
- Variations in Solar Emission at 3.3 mm Wavelength and Their Relation to Flares
Earle B. Mayfield, John Higman, and Clifton Samson **13**, 372
- Theory of Solar Radio Pulsation
Y. T. Chiu **13**, 420
- Comparison of Dynamic Radio Spectra of the September 2, 1966 Complex Burst Recorded at Culgoora and at Weissenau
H. Urbarz **13**, 458
- Solar X-Ray Bursts and Their Relation to H α and Microwave Emissions
J. R. Harries **13**, 467
- Polarization Changes with Time during Solar Microwave Impulsive Bursts
Pierre Kaufmann, Oscar T. Matsuura, and P. Marques dos Santos **14**, 190
- Solar Activity at $\lambda = 15.8$ mm (19 GHz) during the Period 27 October-4 November 1968 and Its Relation to Proton Events
D. L. Croom and R. J. Powell **14**, 221
- Results of New Absolute Measurements of the Solar Flux Density at 9500 MHz
J. Keiser **14**, 366

- Some Center-Limb Statistical Trends of Impulsive Solar Bursts at 7 GHz
O. T. Matsuura and M. F. F. Nave **14**, 384
- Homologous Microwave Bursts and Associated Solar Flares
U. V. Gopala Rao **14**, 389
- Changes in Coronal Condensations Emission after Solar Bursts at Microwaves
Pierre Kaufmann, E. Scalise, Jr., and P. Marques dos Santos **15**, 195
- Variation on O VII X-Ray Line-Emission from the Solar Corona
H. R. Rugge and A. B. C. Walker, Jr. **15**, 372
- 71 GHz (4.2 mm) Solar Radio Bursts in the Period July 1967 to December 1969
D. L. Croom **15**, 414
- The Observation of 3.3-mm Bursts and Their Correlation with Soft X-Ray Bursts
F. I. Shimabukuro **15**, 424
- Brightness Temperatures of the Quiet Sun and New Moon at the 6 mm Wavelength
E. E. Reber **16**, 75
- The Relation of Energetic Solar X-Rays ($h\nu > 60$ keV) and High Frequency Microwaves Deduced from the Periodic Bursts of August 8, 1968 Flare
George K. Parks and John R. Winckler **16**, 186
- The Impulsiveness of Microwave Bursts and Its Association with Sunspot Types
O. T. Matsuura and M. F. F. Nave **16**, 417
- The Explosive Phase of Solar Flares
Karen L. Harvey **16**, 423
- Soft Solar X-Rays and Solar Activity. IV: Some Evidence for the Altitude of X-Ray Source Volumes in Solar Flares
Richard G. Teske **17**, 181
- Three Years Statistics of Simple 3 Solar Bursts
Oscar T. Matsuura and P. Marques dos Santos **17**, 402
- Observations of a Solar Radio Burst on September 27, 1969
Haruo Tanaka and Shinzo Énomé **17**, 408
- A Statistical Research on Solar Microwave Bursts
E. Fürst **18**, 84
- Identification of Two Distinctive Types of Centimeter Radio Bursts with Flare Location
John P. Hagen and Donald F. Neidig, Jr. **18**, 305 *Corrigendum 20*, 520
- Solar Microwave Bursts as Indicators of the Occurrence of Solar Proton Emission
David L. Croom **19**, 152
- Forecasting the Intensity of Solar Proton Events from the Time Characteristics of Solar Microwave Bursts
David L. Croom **19**, 171
- Magnetic Fields, Bremsstrahlung and Synchrotron Emission in the Flare of 24 October 1969
H. Zirin, Gail Pruss, and Joan Vorpahl **19**, 463
- On the Polarization of Solar Microwave Bursts Observed at 17 GHz
Werner Wassenberg **20**, 130
- 19 GHz (1.58 cm) Solar Radio Bursts in the Period July 1967 to December 1969
D. L. Croom and R. J. Powell **20**, 136
- Extreme Ultraviolet Flashes of Solar Flares Observed via Sudden Frequency Deviations: Experimental Results
Richard F. Donnelly **20**, 188
- Eclipse of Radio Emission on 7 March, 1970 at 10 cm Wavelength from the Active Region Associated with McMath Plage 10618
Earle B. Mayfield, Gary A. Chapman, and Ronald M. Straka **21**, 460
- Pencil Beam Observation of a Large Microwave Outburst at 94.8 GHz
J. R. Cogdell **22**, 147
- Soft X-Ray and Microwave Observations of Hot Regions in Solar Flares
H. S. Hudson and K. Ohki **23**, 155
- On the Temperature and Emission Measure of Thermal Radio Bursts
F. I. Shimabukuro **23**, 169
- Possible Long-Period Oscillations in Solar Radio Emission at Microwaves
Pierre Kaufmann **23**, 178
- Solar Flares in the Extreme Ultraviolet. II: Comparisons with Other Observations
A. T. Wood, Jr. and R. W. Noyes **24**, 180

Observations and Comments for the Solar Event of 24 October, 1969

Arthur E. Covington 24, 405

Measurement of the Electron Temperature of Small 3-cm Radio Bursts

Peter Foukal 24, 411

The Loop Prominence of May 13, 1971 and Its Associated Effects

M. E. Machado, H. Grossi Gallegos, and A. F. Silva 25, 402

The Self Absorption of Gyro-Synchrotron Emission in a Magnetic Dipole Field: Microwave Impulsive Burst and Hard X-Ray Burst

Tatsuo Takakura 26, 151

Some Studies on the Solar Microwave Bursts in Relation to the Slowly Varying Component

M. K. Das Gupta and S. K. Sarkar 26, 378

X-Radiation ($E > 10$ keV), $H\alpha$ and Microwave Emission during the Impulsive Phase of Solar Flares

Joan A. Vorpahl 26, 397

Evidence for a Common Origin of the Electrons Responsible for the Impulsive X-Ray and Type III Radio Bursts

S. R. Kane 27, 174

Polarization Structure of a Solar Flare Region at 9.5 mm Wavelength

M. R. Kundu and T. P. McCullough 27, 182

The Intensity Decrease of Microwave Bursts

E. Fürst 28, 159

The Solar Outburst on August 7, 1972 at 17 GHz and 35 GHz

E. Fürst, O. Hachenberg, and W. Hirth 28, 533

Solar Active Regions at 9 and 3.5 mm Wavelengths under Disturbed Conditions

M. R. Kundu and Sou-Yang Liu 29, 409

19-20 May 1969, an Example of Type III Emission during the Impulsive Phase of Flares

Joan Vorpahl 29, 447

On the Observation of Linear Polarization of Solar Microwave Bursts

A. Magun and Ch. Mätzler 30, 489

Quasi-Periodic Structure in Solar Microwave Bursts

T. J. Janssens, K. P. White, III, and R. M. Broussard 31, 207

Interferometer Observations of a Radio Burst at 8.6 mm Associated with a Polarized Hard X-Ray Event

K. Kawabata, Y. Sofue, H. Ogawa, and T. Omodaka 31, 469

The Initial Stage of Development of Type IV Radio Bursts and the Relation to Expanding Magnetic Bottles

Kunitomo Sakurai 31, 483

Spatial Dispersion of Faraday Rotation and Its Connection with Mode Coupling

Christian Mätzler 32, 241

The Possible Role of Energetic Electrons in the Production of Surges

S. W. Kahler 32, 477

A Flare-Associated Thermal Burst in the mm-Wave Region

K. Akabane, H. Nakajima, K. Ohki, F. Moriyama, and T. Miyaji 33, 431

Decrease of 2800 MHz Solar Radio Emission Associated with a Moving Dark Filament before the Flare of May 19, 1969

Arthur E. Covington 33, 439

Fine Structure of the Sun at 1.3 cm Wavelength

M. R. Kundu and T. Velusamy 34, 125

Fine Structure of a Solar Flare Region at 3.7 and 11.1 cm Wavelengths

M. R. Kundu, T. Velusamy, and R. H. Becker 34, 217

High Resolution Interferometry of the Sun at 3.7 cm Wavelength

Kenneth R. Lang 36, 351

Short Duration Solar Microwave Bursts and Associated Soft X-Ray Emission

Steven R. Spangler and Stanley D. Shawhan 37, 189

Preliminary Results of Sun Observations at 8.6 mm with the Bordeaux Interferometer

R. Bocchia and F. Poumeyrol 38, 193

Discontinuity in the Microwave Slowly Varying Component Observed at 20:02 UT, June 16, 1972

Arthur E. Covington 39, 153

Analysis of the August 7, 1972 White Light Flare: Light Curves and Correlation with Hard X-Rays

David M. Rust and Frank Hegwer 40, 141

- Location of Radio Source at 35 GHz of 2145 UT 2 August 1972 Burst
Hideo Ogawa and Kin-Aki Kawabata **40**, 159
- Some Studies on Solar Microwave Bursts in Relation to the Phases of the Associated H α -Flares and Their Spectral Nature
S. K. Sarkar, T. Chattopadhyay, and M. K. Das Gupta **40**, 411
- High Resolution Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths
C. E. Alissandrakis and M. R. Kundu **41**, 119
- On the Relationships between sfc (crochet) and Solar X-Ray and Microwave Bursts
J. Hanumath Sastri and B. Suryanaryan Murthy **41**, 477
- Comments on the Course of Solar Activity during the Declining Phase of Solar Cycle 20 (1970-74)
H. W. Dodson and E. R. Hedeman **42**, 121
- The Structure and Intensity Evolution of a Solar Burst at 2.8 cm and the Relation with the Soft X-Ray Emitting Region
Marcello Felli, Roberto Pallavicini, and Gianni Tofani **44**, 135
- A Radio Burst with Peculiar Polarization Behaviour in July 1974
P. Steffen **44**, 149
- Spectral Distributions of Microwave Bursts
D. A. Guidice and J. P. Castelli **44**, 155
- The July 1974 Solar Events: A Possible Lower Limit for Microwave Activity
P. Kaufmann, P. Iacomo, Jr., E. H. Koppe, P. Marques dos Santos, R. E. Schaal, and J. R. Blakey **45**, 189
- Solar Micro-Bursts at 22.2 GHz and Their Relationship to Events Observed at Lower Frequencies
J. R. Blakey **46**, 241
- Non-Thermal Processes during the 'Build-Up' Phase of Solar Flares and in Absence of Flares
S. R. Kane and M. Pick **47**, 293
- Quasi-Periodic Burst Structure at 2.8 GHz and Its Relationship to Burst Morphological Parameters
Edward W. Cliver, Marshall D. Hurst, Fred L. Wefer, and Max P. Bleiweiss **48**, 307
- Continuous Injection Model for Hard X-Ray Correlated Microwave Bursts
Christian Mätzler **49**, 117 *Erratum 53*, 197
- The Spatial Structure of a Solar Flare in Soft X-Rays and Centimetric Wavelengths
R. Pallavicini and G. S. Vaiana **49**, 297
- Gamma-Ray and Microwave Evidence for Two Phases of Acceleration in Solar Flares
T. Bai and R. Ramaty **49**, 343
- Polarization of a Periodic Solar Microwave Burst
Pierre Kaufmann **50**, 197
- A Comparison of Positions and Sizes of Sources of Centimeter and X-Ray Bursts
M. R. Kundu, C. E. Alissandrakis, and S. W. Kahler **50**, 429
- Two 'Negative Bursts' with Moving Filaments, 19 May 1969
C. Sawyer **51**, 195 *Erratum 54*, 516
- Are 'Negative Bursts' Due to Absorption?
C. Sawyer **51**, 203
- Some Studies on H α -Flares and Microwave Bursts in Relation to Sunspot Magnetic Configurations
M. K. Das Gupta, T. Chattopadhyay, and S. K. Sarkar **51**, 409
- High Resolution Polarimetry of the Sun at 3.7 and 11.1 cm Wavelengths
Kenneth R. Lang **52**, 63
- A Hard X-Ray Observation of a Solar Flare with 100 ms Time Resolution
K. Hurley and G. Duprat **52**, 107
- A Two-Component Model of Impulsive Microwave Burst Emission Consistent with Soft and Hard X-Rays
A. Böhme, F. Fürstenberg, J. Hildebrandt, O. Saal, A. Krüger, P. Hoyng, and G. A. Stevens **53**, 139
- Relationship between Type III and Microwave Radio Bursts and the Role of Magnetic Configuration
M. Pick **53**, 241
- Locations of the Impulsive Bursts, Discussion
H. Zirin **53**, 243
- Microwave Burst Spectra and Solar Flare Magnetic Fields
Donald F. Neidig, Jr. **54**, 165

- 4.7 s Nearly Periodic Oscillations Superimposed the Solar Microwave Great Burst of 28 March 1976
Pierre Kaufmann, L. Rizzo Piazza, and J. C. Raffaelli **54**, 179
- Manifestation of Pulsation Instability in Solar Radio Emission Preceding Proton Flares
M. M. Kobrin, A. I. Korshunov, S. I. Arbutov, V. V. Pakhomov, V. M. Fridman, and Yu. V. Tikhomirov **56**, 359
- H α , Hard X-Ray, and Microwave Emissions in the Impulsive Phase of Solar Flares
Donald F. Neidig, Jr. **57**, 385
- On the Relation of SPA Measured at VLF to Solar Microwave Bursts Energies
Pierre Kaufmann and L. Rizzo Piazza **57**, 479
- Indirect Estimation of Energy Disposition by Non-Thermal Electrons in Solar Flares
H. S. Hudson, R. C. Canfield, and S. R. Kane **60**, 137
- Fast Time Structures Superimposed to Impulsive Solar Microwave Bursts with Slowly Varying or Stationary Polarization Degree
Pierre Kaufmann **60**, 367
- Radio Interferometric Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths
M. R. Kundu and P. E. Angerhofer **64**, 159
- A Statistical Investigation of Microwave Burst Spectra for the Determination of Source Inhomogeneities
W. Schoechlin and A. Magun **64**, 349
- Prominences at Centimetric and Millimetric Wavelengths. II: Radio Diagnostic of the Prominences
P. Lantos and A. Raoult **66**, 275
- On the Distribution of Magnitudes of Solar Microwave Events
A. D. Fokker **67**, 101
- Wide-Band Average Spectra of Solar Radio Bursts
M. K. Das Gupta, T. K. Das, and S. K. Sarkar **67**, 109
- Radio and X-Ray Observations of a Multiple Impulsive Solar Burst with High Time Resolution
Takeo Kosugi **71**, 91
- Periodicities in the λ 10 cm Solar Flux
V. A. Hughes and M. J. L. Kesteven **71**, 259
- A Long-Enduring Multi-Source Burst at 17 GHz and Its Relation to a Type IV_{m-dm} Burst with Spectral Fine Features
Takeo Kosugi **75**, 293
- Differences of Observed Characteristics between Impulsive Bursts and Post-Burst Increases
Keizo Kai, Takeo Kosugi, and Hiroshi Nakajima **75**, 331
- Rising Motion of a behind-the-limb Flare at 35 GHz
Tatsuji Kato, Toshihiro Omodaka, Mitsumi Fujishita, Kin-Aki Kawabata, and Hideo Ogawa **78**, 137
- The Flare of December 17, 1980 Observed with High Time Resolution by a Digital CCD Camera
N. Kämpfer and W. Schöchlin **78**, 215
- Source Structure of Gradual Rise and Fall Bursts at 17 GHz
K. Kai, T. Kosugi, and H. Nakajima **78**, 243
- Microwave Emission from Hot X-Ray Kernels in Solar Flares
V. V. Zheleznyakov and Yu. V. Tikhomirov **81**, 121
- Time Delays in Solar Bursts Measured in the mm-cm Range of Wavelengths
P. Kaufmann, J. E. R. Costa, and F. M. Strauss **81**, 159
- Thermal and Nonthermal Phenomena in Solar Flare Loops at 20 cm Wavelength and in X-Rays
E. J. Schmahl, M. R. Kundu, P. B. Landecker, and D. L. McKenzie **83**, 3
- A Beam Ratio Technique for Microwave Observation of S-Component Sources
K. F. Tapping **83**, 179
- Optical Counterpart of the Radio Event Accompanying the 3B Flare of 13 May 1981
R. E. Loughhead, Wang Jia-Long, and R. A. Duncan **83**, 257 *Errata* 88, 391
- High-Resolution Observations of Solar Radio Bursts at 2, 6, and 20 cm Wavelength
Robert F. Willson **83**, 285
- Association between Gradual Hard X-Ray Emission and Metric Continua during Large Flares
L. Klein, K. Anderson, M. Pick, G. Trotter, N. Vilmer, and S. Kane **84**, 295
- Microwave and Hard X-Ray Observations of a Solar Flare with a Time Resolution Better than 100 ms
P. Kaufmann, F. M. Strauss, J. E. R. Costa, B. R. Dennis, A. Kiplinger, K. J. Frost, and L. E. Orwig **84**, 311

- Secondary Peaks in Solar Microwave Outbursts
E. W. Cliver **84**, 347
- Spatially Coherent Oscillations in Microwave Bursts
Arie Kattenberg and Max Kuperus **85**, 185
- Purely Coronal Flare-Like Variations
Z. Švestka, J. Schrijver, B. Somov, B. R. Dennis, B. E. Woodgate, E. Fürst, W. Hirth, L. Klein, and A. Raoult **85**, 313
- Observations of a Compact Flare on 1981, September 7, in H α , X-Ray, and Microwave Radiations (*Extended Abstract*)
Mitsuo Kanno, Hiroki Kurokawa, and the HINOTORI Group **86**, 193
- Spatial Characteristics of Microwave Bursts
M. R. Kundu **86**, 205
- Dual Frequency Observations of Flares with the VLA
George A. Dulk, Timothy S. Bastian, and Gordon J. Hurford **86**, 219
- Dissipative Thermal Models for Impulsive Burst Delays
John C. Brown **86**, 227
- Late Phase Gradual Enhancements in Microwaves and Hard X-Rays of the 6 November, 1980 Flare
K. Kai, H. Nakajima, T. Kosugi, and S. R. Kane **86**, 231
- Short-Period Pulsations Observed Simultaneously by X-Ray and Radio Waves (*Abstract*)
S. S. Degaonkar, T. Takakura, P. Kaufmann, J. E. R. Costa, K. Ohki, and N. Nitta **86**, 237
- Imaging of Impulsive Solar Flare Phenomena
A. Duijveman and P. Hoyng **86**, 279
- Narrow-Band Decimeter Bursts and X-Ray Emissions - Possible Evidence of Negative Absorption or Maser Effect
Shinzo Enome **86**, 421
- Particle Acceleration in the 1981, April 1, Flare
Hiroshi Nakajima **86**, 427
- Location of X-Ray and Microwave Sources
H. Hudson **86**, 444
- Source Characteristics of Main and Post-Burst-Increase Phases of Solar Bursts at 17 GHz
Takeo Kosugi, Keizo Kai, and Takashi Suzuki **87**, 373
- The Plasma Radiation of Flare Kernels
V. V. Zaitsev and A. V. Stepanov **88**, 297
- Radio, X-Ray, and Optical Observations of the Flare of June 13, 1980, at 6^h22^m UT
A. Kattenberg, M. Allaart, C. de Jager, A. Schadee, J. Schrijver, K. Shibasaki, Z. Švestka, and W. van Tend **88**, 315
- Properties of Flares Observed in the Mg I b₂ Line at 5172 Å
J. K. Lawrence, G. A. Chapman, and A. D. Herzog **89**, 341
- X-Ray, H α , and Radio Observations of the Two-Ribbon Flare of 16 May, 1981
F. Fárník, J. Kaastra, B. Kálmán, M. Karlický, C. Slottje, and B. Valníček **89**, 355
- Long Time Delay between the Peaks of Intense Solar Hard X-Ray and Microwave Bursts
T. Takakura, S. S. Degaonkar, K. Ohki, T. Kosugi, and S. Enome **89**, 379
- Observation of the Impulsive Phase of a Simple Flare
E. Tandberg-Hanssen, P. Kaufmann, E. J. Reichmann, D. L. Teuber, R. L. Moore, L. E. Orwig, and H. Zirin **90**, 41
- Decimetric Type III Radio Bursts and Associated Hard X-Ray Spikes
B. R. Dennis, A. O. Benz, M. Ranieri, and G. M. Simnett **90**, 383
- Multiple Energetic Injections in a Strong Spike-Like Solar Burst
P. Kaufmann, E. Correia, J. E. R. Costa, B. R. Dennis, G. J. Hurford, and J. C. Brown **91**, 359
- The Spatial Distribution of 6 Centimeter Gyroresonance Emission from a Flaring X-Ray Loop
S. W. Kahler, D. F. Webb, J. M. Davis, and M. R. Kundu **92**, 271
- Persistent 1.5 s Oscillations Superimposed to a Solar Burst Observed at Two mm-Wavelengths
A. M. Zodi, P. Kaufmann, and H. Zirin **92**, 283
- Narrowband dm-Spikes as Indication of Flare Mass Ejection
M. Karlický **92**, 329
- Pulsations of Microwave Emission as a Consequence of Oscillatory Transients in the Solar Atmosphere
V. G. Zandanov and A. M. Uralov **93**, 301

Synchrotron or Plasma Emission in Solar Microwave Flares?

A. O. Benz **94**, 161

Timing Analysis of Hard X-Ray Emission and 22 GHz Flux and Polarization in a Solar Burst

J. E. R. Costa, P. Kaufmann, and T. Takakura **94**, 369

The Simplest Solar Microbursts Flux and Circular Polarization at 22 GHz

P. Kaufmann, E. Correia, J. E. R. Costa, H. S. Sawant, and A. M. Zodi Vaz **95**, 155

Different Time Constants of Solar Decimetric Bursts in the Range 100-1000 MHz

H. J. Wiehl, A. O. Benz, and M. J. Aschwanden **95**, 167

VLA Observations of Narrow-Band Decimetric Burst Emission

Robert F. Willson **96**, 199

Great Microwave Bursts and Hard X-Rays from Solar Flares

Herbert J. Wiehl, David A. Batchelor, Carol Jo Crannell, Brian R. Dennis, Phillip N. Price, and Andreas Magun **96**, 339

Radio Spikes and the Fragmentation of Flare Energy Release

A. O. Benz **96**, 357

Correlation of Solar Decimetric Radio Bursts with X-Ray Flares

M. J. Aschwanden, H. J. Wiehl, A. O. Benz, and S. R. Kane **97**, 159

Simultaneous Microwave Observations of Solar Flares at 6 and 20cm Wavelengths Using the VLA

M. Melozzi, M. R. Kundu, and R. K. Shevgaonkar **97**, 345

Interpretation of Fast Ripple Structure in Solar Impulsive Bursts

Jon M. Loran, John C. Brown, Emilia Correia, and Pierre Kaufmann **97**, 363

High Spatial Resolution Microwave Observations of the Sun (*Invited Review Paper*)

M. R. Kundu **100**, 491

Radio Bursts, Theory (*see Radio Emission, Theory*)

Radio Bursts, Type I

Observations on the Time Structure of Solar Radio Bursts at a Wavelength of 12m

Ch. V. Sastry **10**, 429

The Structure, Polarization, and Spatial Relationship of Solar Radio Sources of Spectral Types I and III

K. Kai **11**, 456

Interpretation of Type I- and IV mB-Bursts and Noise Storms by Mode Coupling in the Warm Plasma

L. Mollwo **12**, 125

Solar Radio Spectra between 160 and 320 MHz

T. de Groot **14**, 176

Coronal Magnetic Field Patterns Inferred from Radio Observations

M. F. Lantos-Jarry **15**, 40

On the Characteristics of the Solar Active Regions Responsible for the Generation of Type III Radio Bursts at Hectometric Frequencies in August 1968

Kunitomo Sakurai **16**, 125

Energetic Electrons Associated with Solar Flares and Their Relation to Type I Noise Activity

Kunitomo Sakurai **16**, 198

Wave Propagation in the Warm Plasma and the Spectrum of the Solar Radio Bursts

L. Mollwo **19**, 128

Active Solar Radio Regions at Metric Frequencies and the Interplanetary Sector Structures

Kunitomo Sakurai and Robert G. Stone **19**, 247

Results of Observation of Spectra and Polarization of Meter Solar Radio Emission with High Time Resolution: May-June, 1969

G. P. Chernov, I. M. Chertok, V. V. Fomichev, and A. K. Markeev **24**, 215

Radio Evidence of Twisted Bi-Polar Magnetic Fields in the Solar Corona

D. J. McLean and K. V. Sheridan **26**, 176

Meter-Wavelength Observations of the Solar Radio Burst Storm of August 17-22, 1968

R. T. Stewart and N. R. Labrum **27**, 192

On the Observation of Scattered Radio Emission from Sources in the Solar Corona

A. C. Riddle **35**, 153

Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations

K. Kai and K. V. Sheridan **35**, 181

Plasma Emission Due to Isotropic Fast Electrons, and Types I, II and V Solar Radio Bursts

D. B. Melrose 43, 211

Intermediate Polarization of Type I Bursts

P. Zlobec 43, 453

Chains of Type I Stormbursts

T. de Groot, J. Loonen, and C. Slottje 48, 321

White Light and Radio Studies of the Coronal Transient of 14-15 September 1973: I: Material Motions and Magnetic Field

G. A. Dulk, S. F. Smerd, R. M. MacQueen, J. T. Gosling, A. Magun, R. T. Stewart, K. V. Sheridan,

R. D. Robinson, and S. Jacques 49, 369 *Erratum/Replacement Figure: Fig. 1 - 53, 547*

Source Heights of Metre Wavelength Bursts of Spectral Types I and III

R. T. Stewart 50, 437

A Plasma-Emission Mechanism for Type I Solar Radio Emission

D. B. Melrose 67, 357

Observations of a Post-Flare Radio Burst in X-Rays

Z. Švestka, R. T. Stewart, P. Hoyng, W. van Tend, L. W. Acton, A. H. Gabriel, C. G. Rapley, A.

Boelee, E. C. Bruner, C. de Jager, H. LaFleur, G. Nelson, G. M. Simnett, H. F. van Beek, and W. J.

Wagner 75, 305

A Study of the Parameters of Individual Type-I Bursts

A. Kattenberg and G. van der Burg 77, 231

The Relation between the Surges and Solar Radio Emission

I. N. Garczyńska, B. Rompolt, A. O. Benz, C. Slottje, A. Tlamicha, and C. Zanelli 77, 277

Preliminary Observations of Solar Sources with the Culgoora Radioheliograph Operating at Four Frequencies

K. V. Sheridan, N. R. Labrum, W. J. Payten, G. J. Nelson, and E. R. Hill 83, 167

Type I Noise Storms and the Structure of the Extreme Ultraviolet Corona

G. E. Brueckner 85, 243

Purely Coronal Flare-Like Variations

Z. Švestka, J. Schrijver, B. Somov, B. R. Dennis, B. E. Woodgate, E. Fürst, W. Hirth, L. Klein, and

A. Raoult 85, 313

Dynamic Behaviour of the K-Corona above a Type I Radio Source

R. A. Duncan 89, 63

The Source Model of Low-Energy Electrons Responsible for Type I and Type III Radio Noise Storms

V. M. Gubchenko and V. V. Zaitsev 89, 391

Solar Noise Storms Coordinated Observations: May 16-24, 1981 (Summary of Results of a Cooperative Study)

C. Mercier, Ø. Elgarøy, A. Tlamicha, and P. Zlobec 92, 375

Rapid Fluctuations in the Position, Size, and Brightness of Intense Solar Metre-Wave Radio Sources

R. A. Duncan 97, 173

Radio Bursts, Type II

On the Origin of Type II and IV Radio Sources during Flares Observed by a Radioheliograph on 80 MHz

L. Křivský 9, 194

Radio Evidence of Directive Shock-Wave Propagation in the Solar Corona

K. Kai 10, 460

Expanding Arch Structure of a Solar Radio Outburst

K. Kai 11, 310

Evidence of Type II and Type IV Solar Radio Emission from a Common Flare-Induced Shock Wave

R. T. Stewart and K. V. Sheridan 12, 229

Comparison of Dynamic Radio Spectra of the September 2, 1966 Complex Burst Recorded at Culgoora and at

Weissenau

H. Urbarz 13, 458

On the Determination of the Velocity of the Exciters of Type II Solar Radiobursts

H. G. van Bueren and M. Kuperus 14, 208

Positions and Motions of Solar Bursts at Decameter Wavelengths

M. R. Kundu, W. C. Erickson, P. D. Jackson, and J. Fainberg 14, 394

Coherent Synchrotron Deceleration and the Emission of Type II and III Solar Radio Bursts

A. F. Kuckes and R. N. Sudan 17, 194

Mass Motions in a Flare Spray

Marie K. McCabe 19, 451

The Time Behavior of the Continua during the Initial Stage of Type IV Bursts

A. Böhme 24, 457

The Heating of the Solar Plasma Due to Microwave Phenomena Correlated with Type II Meter Bursts

E. Fürst 25, 178

A High Resolution Study in Time, Position, Intensity, and Frequency of the Radio Event of January 14, 1971

C. Caroubalos, M. Pick, H. Rosenberg, and C. Slottje 30, 473

Interpretation of Distinct Type IVmA- and IV μ -Bursts on the Basis of Micro-Instabilities and of Resonant Nonlinear Interaction of Waves

L. Mollwo 30, 497

On the Observation of Scattered Radio Emission from Sources in the Solar Corona

A. C. Riddle 35, 153

Correlation of a Flare-Wave and Type II Burst

Karen L. Harvey, Sara F. Martin, and Anthony C. Riddle 36, 151

Observations of Coronal Disturbances from 1 to 9 R_{\odot} . I: First Event of 1973 January 11

R. T. Stewart, Marie K. McCabe, M. J. Koomen, R. T. Hansen, and G. A. Dulk 36, 203

Observations of Coronal Disturbances from 1 to 9 R_{\odot} . II: Second Event of 1973 January 11

R. T. Stewart, R. A. Howard, F. Hansen, T. Gergely, and M. Kundu 36, 219

Type II Radio Bursts and Particle Acceleration

Z. Švestka and L. Fritzová-Švestková 36, 417

Shock Waves Generated by the Intense Solar Flare of 1972, August 7, 15:00 UT

A. Maxwell and R. Rinehart 37, 437

A Type II Solar Radio Burst Observed in the Corona and in Interplanetary Space

I. D. Palmer 37, 443

Behavior of the Flare-Produced Coronal MHD Wavefront and the Occurrence of Type II Radio Bursts

Yutaka Uchida 39, 431

Source Regions for Type II Radio Bursts

James C. Dodge 42, 445

Plasma Emission Due to Isotropic Fast Electrons, and Types I, II and V Solar Radio Bursts

D. B. Melrose 43, 211

Observations of a Complex Solar Radio Burst with Fine Structure on 3 May 1973

G. P. Chernov, O. S. Korolev, and A. K. Markeev 44, 435

Empirical Study of the Conversion of the Plasma Waves into Transverse Waves

Y. Leblanc, A. Lecacheux, and A. Boischoit 46, 501

Type II-IV Radio Bursts and Compact and Diffuse White-Light Clouds in the Outer Corona of December 14, 1971

Takeo Kosugi 48, 339

A Decameter Type II Burst Associated with a behind-the-limb Flare

Tomas E. Gergely and Mukul R. Kundu 48, 357

The Speeds of Coronal Mass Ejection Events

J. T. Gosling, E. Hildner, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 48, 389

The Shock Waves and the Magnetic Field in the Corona above the Active Region on February 17-28, 1969

Irena Garczyńska 51, 131

Structure and Evolution of Solar Radio Bursts at 26.4 MHz

Henry Sha-Lin Chen and Stanley D. Shawhan 57, 205

Shock Waves and Type II Radiobursts in the Interplanetary Medium

A. Boischoit, A. C. Riddle, J. B. Pearce, and J. W. Warwick 65, 397

Decameter Studies of the 5 September 1973 Flare

T. E. Gergely and M. R. Kundu 71, 65

Solar Radio Bursts of Spectral Type II, Coronal Shocks, and Optical Coronal Transients

Alan Maxwell and Murray Dryer 73, 313

Positions of Type II Fundamental and Harmonic Sources in the 30-100 MHz Range

H. S. Sawant, T. E. Gergely, and M. R. Kundu 77, 249

Type II Solar Radio Events Observed in the Interplanetary Medium. I: General Characteristics

H. V. Cane, R. G. Stone, J. Fainberg, J. L. Steinberg, and S. Hoang 78, 187

- Positional Characteristics of Meter-Decameter Wavelength Bursts Associated with Hard X-Ray Bursts
M. R. Kundu, T. E. Gergely, and S. R. Kane 79, 107
- Spectral Evidence of Type II Shock Influence on Razin-Cutoff Frequency in the Decametric Type IV Continuum
S. S. Degaonkar and H. W. Urbarz 84, 285
- Radio and Visible-Light Observations of a Coronal Arcade Transient
T. E. Gergely, M. R. Kundu, F. T. Erskine, III, C. Sawyer, W. J. Wagner, R. Illing, L. L. House, M. K. McCabe, R. T. Stewart, G. J. Nelson, M. J. Koomen, D. Michels, R. Howard, and N. Sheeley 90, 161
- Properties of Metre-Wavelength Solar Bursts Associated with Interplanetary Type II Emission
R. D. Robinson, R. T. Stewart, and H. V. Cane 91, 159
- Are Interplanetary Magnetic Clouds Manifestations of Coronal Transients at 1 AU?
Robert M. Wilson and Ernest Hildner 91, 169
- Homologous Type II Radio Bursts and Coronal Transients
R. T. Stewart 92, 343
- Characteristics of Flares Producing Metric Type II Bursts and Coronal Mass Ejections
S. Kahler, N. R. Sheeley, Jr., R. A. Howard, M. J. Koomen, and D. J. Michels 93, 133
- Type II Radio Emission in Coronal Transients
R. S. Steinolfson 94, 193
- Association of Type II Solar Radio Bursts with Coronal Structures above H α Filament Channels
R. T. Stewart 94, 379
- Velocities of Type II Solar Radio Events
R. D. Robinson 95, 343
- A Positional Comparison between Coronal Mass Ejection Events and Solar Type II Bursts
R. D. Robinson and R. T. Stewart 97, 145
- Rapid Fluctuations in the Position, Size, and Brightness of Intense Solar Metre-Wave Radio Sources
R. A. Duncan 97, 173
- A Piston-Driven Shock in the Solar Corona
Alan Maxwell, Murray Dryer, and Patrick McIntosh 97, 401
- Radio Bursts, Type III**
- The Starting Frequencies of Type III Bursts
J. McKim Malville 2, 484
- Type III Radio Bursts in the Outer Corona
J. K. Alexander, H. H. Malitson, and R. G. Stone 8, 388
- Comment on the Note by Friedman and Hamberger
Z. Švestka 8, 400
- Flare-Time Sudden Enhancements of Low Frequency Field Strength and Associated Meter Wave Solar Radio Bursts
S. K. Alurkar and R. V. Bhonsle 9, 198
- Trajectories Followed by U-Like Solar Radio Bursts
A. D. Fokker 11, 92
- Solar X-Ray Bursts at Energies Less than 10 keV Observed with OSO-4
J. L. Culhane and K. J. H. Phillips 11, 117
- The Structure, Polarization, and Spatial Relationship of Solar Radio Sources of Spectral Types I and III
K. Kai 11, 456
- Theory of Solar Radio Pulsation
Y. T. Chiu 13, 420
- On the Relative Intensity of Second Branches of U-Like Solar Radio Bursts
D. F. Smith 13, 444
- Solar Radio Spectra between 160 and 320 MHz
T. de Groot 14, 176
- Positions and Motions of Solar Bursts at Decameter Wavelengths
M. R. Kundu, W. C. Erickson, P. D. Jackson, and J. Fainberg 14, 394
- Coronal Magnetic Field Patterns Inferred from Radio Observations
M. F. Lantos-Jarry 15, 40
- Towards a Theory for Type III Solar Radio Bursts. I: Nature of the Exciting Agency
D. F. Smith 15, 202

- Type III Solar Radio Burst Storms Observed at Low Frequencies. I: Storm Morphology
Joseph Fainberg and R. G. Stone **15**, 222
- Type III Solar Radio Burst Storms Observed at Low Frequencies. II: Average Exciter Speed
Joseph Fainberg and R. G. Stone **15**, 433
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. II: The Electron Emission Structure of Large Active Regions
R. P. Lin **15**, 453
- On the Characteristics of the Solar Active Regions Responsible for the Generation of Type III Radio Bursts at Hectometric Frequencies in August 1968
Kunitomo Sakurai **16**, 125
- Polarization Measurements of Solar Type III Radio Bursts at 25.3 MHz
Y. C. Chin, B. B. Lusignan, and P. C. W. Fung **16**, 135
- Coherent Synchrotron Deceleration and the Emission of Type II and III Solar Radio Bursts
A. F. Kuckes and R. N. Sudan **17**, 194
- Type III Solar Radio Burst Storms Observed at Low Frequencies. III: Streamer Density, Inhomogeneities, and Solar Wind Speed
Joseph Fainberg and R. G. Stone **17**, 392
- Quasi-Oscillatory Decay in Type III Bursts
Paolo Santin **18**, 87
- A Note on the Emission Frequency of the Type III Solar Bursts
Michael D. Papagiannis **18**, 311
- Faraday Rotation Dispersion and the Distribution of Polarization Characteristics of Type III Bursts
A. D. Fokker **19**, 472
- Gyro-Resonance Absorption of Plasma Waves in the Corona and the Fine Structure of Solar Radio Bursts
V. V. Zheleznyakov and E. Ya. Zlotnik **20**, 85
- A Pulsating Regime of Stream Instability and the Origin of 'Rain' Type Radio Bursts
V. V. Zaitsev **20**, 95
- A U-Type Solar Radio Burst Originating in the Outer Corona
R. G. Stone and Joseph Fainberg **20**, 106
- A Comparison of Type III Solar Radio Burst Theories Using Satellite Radio Observations and Particle Measurements
Larry G. Evans, Joseph Fainberg, and R. G. Stone **21**, 198
- Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts
Dean F. Smith **23**, 191
- Results of Observation of Spectra and Polarization of Meter Solar Radio Emission with High Time Resolution: May-June, 1969
G. P. Chernov, I. M. Chertok, V. V. Fomichev, and A. K. Markeev **24**, 215
- Solar Soft X-Rays and Solar Activity. VII: Observational Assessment of the Role of the Type III Acceleration Mechanism in Establishment of the Soft X-Ray Source Volume
Richard G. Teske and Roger J. Thomas **24**, 434
- A Dynamic Theory of Type III Solar Radio Bursts
V. V. Zaitsev, N. A. Mityakov, and V. O. Rapoport **24**, 444
- Type III Solar Noise Observed below 100 kHz on OGO 3. I: Description of Events
N. Dunkel, R. A. Helliwell, and J. Vesecky **25**, 197
- The Role of Energetic Electrons in the Correlation of Meter and Decimeter Type III Bursts with 4 keV X-Ray Emission
S. W. Kahler **25**, 435
- A Search of a Connection between the Polarization of Decam-Type III Bursts and Magnetic Fields in Different Heights of the Solar Atmosphere
I. M. Chertok, V. V. Fomichev, A. Krüger, and W. Willimczik **25**, 452
- Particle Motions in Coronal Streamers and Type III Radio Bursts
Dean F. Smith and G. W. Pneuman **25**, 461
- Evidence for Electron Excitation of Type III Radio Burst Emission
H. Alvarez, F. Haddock, and R. P. Lin **26**, 468
- Evidence for a Common Origin of the Electrons Responsible for the Impulsive X-Ray and Type III Radio Bursts
S. R. Kane **27**, 174

- Meter-Wavelength Observations of the Solar Radio Burst Storm of August 17-22, 1968
R. T. Stewart and N. R. Labrum 27, 192
- Direct Observations of Low-Energy Solar Electrons Associated with a Type III Solar Radio Burst
L. A. Frank and D. A. Gurnett 27, 446
- Detailed Correlation of Type III Radio Bursts with H α Activity. I: Active Region of 22 May 1970
T. B. H. Kuiper and Jay M. Pasachoff 28, 187
- Non-Existence of Linear Polarization in Type III Solar Bursts at 80 MHz
R. J.-M. Grognaud and D. J. McLean 29, 149
- On Some Transient H α Features Associated with Metric Type III Bursts
F. Axisa, M.-J. Martres, M. Pick, and I. Soru-Escaut 29, 163
- The Prevalence of Second Harmonic Radiation in Type III Bursts Observed at Kilometric Wavelengths
F. T. Haddock and Hector Alvarez 29, 183
- Solar Wind Density Model from km-Wave Type III Bursts
Hector Alvarez and F. T. Haddock 29, 197
- 19-20 May 1969, an Example of Type III Emission during the Impulsive Phase of Flares
Joan Vorpahl 29, 447
- Decay Time of Type III Solar Bursts Observed at Kilometric Wavelengths
Hector Alvarez and F. T. Haddock 30, 175
- A High Resolution Study in Time, Position, Intensity, and Frequency of the Radio Event of January 14, 1971
C. Caroubalos, M. Pick, H. Rosenberg, and C. Slottje 30, 473
- Quasi-Periodic Structure in Solar Microwave Bursts
T. J. Janssens, K. P. White, III, and R. M. Broussard 31, 207
- Heliographic Longitude Distribution of the Flares Associated with Type III Bursts Observed at Kilometric Wavelengths
Hector Alvarez, Fred T. Haddock, and William H. Potter 31, 493
- Characteristics of Type III Exciters Derived from Low Frequency Radio Observations
Larry G. Evans, J. Fainberg, and R. G. Stone 31, 501
- The Possible Role of Energetic Electrons in the Production of Surges
S. W. Kahler 32, 477
- Association of Solar Prominences and Coronal Magnetic Sheets from Their Observed Correlation with Type III Radiobursts
C. Mercier 33, 177
- Towards a Better Dynamic Theory for Type III Radio Bursts
Dean F. Smith 33, 213
- Detailed Comparison of Type III Radio Bursts with H α Activity. II: The Isolated Type III Activity of March and April, 1971
T. B. H. Kuiper 33, 461
- On the Determination of Coronal Temperature from the Decay of Type III Radio Bursts
A. C. Riddle 34, 181
- Towards a Theory for Type III Solar Radio Bursts. II: The Radiation Source
Dean F. Smith 34, 393
- Kilometer-Wave Type III Burst: Harmonic Emission Revealed by Direction and Time of Arrival
Hector Alvarez, Fred T. Haddock, and William H. Potter 34, 413 *Erratum* 36, 534
- Comments on 'Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts' by Dean F. Smith
D. B. Melrose 34, 421
- On the Observation of Scattered Radio Emission from Sources in the Solar Corona
A. C. Riddle 35, 153
- On the Role of the Magnetic Configuration of Flares for Production of Type III Solar Radio Bursts
F. Axisa 35, 207
- A Relationship between the Brightness Temperatures for Type III Bursts
D. B. Melrose 35, 441
- Correlation of a Flare-Wave and Type II Burst
Karen L. Harvey, Sara F. Martin, and Anthony C. Riddle 36, 151
- Solar Longitude Dependence of Some Characteristics of Type III Radio Bursts from Metric to Hectometric Wavelengths
Kunitomo Sakurai 36, 171

- Meter and Decameter Wavelength Positions of Solar Bursts of July 31-August 7, 1972
M. R. Kundu and W. C. Erickson **36**, 179
- A Clue to the Trigger for Both the Type III Solar Radioburst and the Solar Flare
E. R. Priest and J. Heyvaerts **36**, 433
- The Third Harmonic of Type III Solar Radio Bursts
Tatsuo Takakura and Shahinaz Yousef **36**, 451
- Pairs of Non Fundamental-Harmonic Type III Bursts
C. Caroubalos, J. Heyvaerts, M. Pick, and G. Trotter **37**, 205
- Coronal Density Structures in Regions of Type III Activity
Y. Leblanc, T. B. H. Kuiper, and S. F. Hansen **37**, 215
- On the Probability of Occurrence of the Type IIIb Burst as a Precursor
Jérôme de la Noë **37**, 225
- On the Propagation of the Electron Streams Generating Type III Bursts
D. B. Melrose **38**, 205
- Comparison of Polarization Characteristics of Decametric Type III Solar Radio Bursts at Two Closely Spaced Frequencies
S. K. Mattoo and R. V. Bhonsle **38**, 217
- The Representation of Partially Elliptically Polarized Type III Solar Burst Radiation
S. K. Mattoo and R. V. Bhonsle **38**, 223
- Acceleration of Electrons in Absence of Detectable Optical Flares Deduced from Type III Radio Bursts, H α Activity and Soft X-Ray Emission
S. R. Kane, R. W. Kreplin, M.-J. Martres, M. Pick, and I. Soru-Escout **38**, 483
- Type III Solar Radio Bursts Observed at 169 MHz: Height and Relative Positions in Pairs
C. Mercier and H. Rosenberg **39**, 193
- Frequency and Time Splitting of Decameter Solar Radio Bursts. II: Chains
L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **39**, 223
- Behavior of the Flare-Produced Coronal MHD Wavefront and the Occurrence of Type II Radio Bursts
Yutaka Uchida **39**, 431
- Harmonic Ratios of Inverted-U Type III Bursts
R. T. Stewart **39**, 451
- A Model Exciter for Type III Solar Radiobursts
C. C. Harvey **40**, 193
- An Example of a Fundamental Type IIIb Radio Burst
R. T. Stewart **40**, 417
- Type IIIb Radio Bursts: 80 MHz Source Position and Theoretical Model
Tatsuo Takakura and Shahinaz Yousef **40**, 421
- Time Profile of Type III Bursts
T. Takakura, Y. Naito, and K. Ohki **41**, 153
- Decameter Storm Radiation, II
T. E. Gergely and M. R. Kundu **41**, 163
- Sunspot Motions, Flares and Type III Bursts in McMath 11482
H. Zirin and B. Lazareff **41**, 425
- The Necessity of Fundamental Emission in Type III Bursts
Dean F. Smith and William D. Davis **41**, 439
- Radio Evidence for an Expanding Magnetic Arch beyond 20 Solar Radii
R. G. Stone and Joseph Fainberg **42**, 179
- Type III Solar Radio Bursts and the Fundamental-Harmonic Hypothesis
Hans Rosenberg **42**, 247
- Discussion on the Coronal Structure Related to Type III Bursts
M. Pick, M.-J. Martres, F. Axisa, and C. Mercier **42**, 461
- Towards a Theory for Type III Solar Radio Bursts. III: The Radiation Source Including Scattering
Dean F. Smith and Anthony C. Riddle **44**, 471
- Fast Solar Electrons, Interplanetary Plasma and km-Wave Type-III Radio Bursts Observed from the IMP-6 Spacecraft
Hector Alvarez, Robert P. Lin, and Samuel J. Bame **44**, 485

- Evidence of Large Scale Diverging Paths in the Solar Corona for Type III Bursts Exciters
C. Mercier 45, 169
- The Solar Elongation Distribution of Low-Frequency Radio Bursts
M. L. Kaiser 45, 181
- Solar Type III Burst Profiles at Decametre-Wave Frequencies. I: Observations
C. H. Barrow and A. Achong 45, 459
- Solar Type III Burst Profiles at Decametre-Wave Frequencies. II: Exciter
A. Achong and C. H. Barrow 45, 467
- Electron Plasma Oscillations Associated with Type III Radio Emissions and Solar Electrons
D. A. Gurnett and L. A. Frank 45, 477
- The Solar Radio Event of January 14, 1971. Position and Polarization Behaviour in the Middle Corona
A. Abrami 46, 229
- Proceedings of the Workshop on Mechanisms for Solar Type III Radio Bursts, held at Space Sciences Laboratory, University of California, Berkeley, California, 8 and 9 May 1975, *Preface*
R. P. Lin (ed.) 46, 233
- Quantitative Comparisons of Type III Radio Burst Intensity and Fast Electron Flux at 1 AU
R. J. Fitzenreiter, L. G. Evans, and R. P. Lin 46, 437
- Generation of Solar Type III Bursts at the 2nd Harmonic (*Abstract only*)
Paul J. Kellogg and R. P. Lin 46, 447
- Tracking of Kilometric-Wave Type III Solar Bursts in Elevation and Elongation and Apparent Source Sizes
Paul J. Kellogg 46, 449
- The Relationship of Electron Plasma Oscillations to Type III Radio Emissions and Low-Energy Solar Electrons (*Abstract only*)
D. A. Gurnett and L. A. Frank 46, 459
- Kilometric Type III Burst Enhancements Associated with Interplanetary Shocks
Nicholas Dunckel 46, 461
- Directivity of Low Frequency Solar Type III Radio Bursts
R. J. Fitzenreiter, J. Fainberg, and R. B. Bundy 46, 465
- Direction Finding Measurements of Type III Bursts in Both Elevation and Azimuth (*Abstract only*)
M. M. Baumback, W. S. Kurth, and D. A. Gurnett 46, 475
- Interplanetary Scattering of Fast Solar Electrons Deduced from Type III Bursts Observed at Low Frequencies
H. Alvarez and R. P. Lin 46, 477
- Preliminary Results on the Apparent Size of the Sources of Type III Bursts Observed at Low Frequencies
Hector Alvarez 46, 483
- Fundamental and Harmonic Radiation in Solar Type III Bursts
S. F. Smerd 46, 493
- Evidence of Large Scale Diverging Paths in the Solar Corona for Type III Bursts Exciters (*Abstract only*)
C. Mercier 46, 499
- Empirical Study of the Conversion of the Plasma Waves into Transverse Waves
Y. Leblanc, A. Lecacheux, and A. Boischot 46, 501
- Directivity in the Stream-Plasma Interaction
J. de la Noë, B. Møller-Pedersen, and A. Boischot 46, 505
- Type III Solar Radioburst Profiles and the Associated Electron Energy Spectra (*Abstract only*)
C. C. Harvey 46, 509
- Effects of an Ambient Magnetic Field on the Properties of Langmuir Waves (*Extended Summary*)
D. B. Melrose 46, 511
- On the Theory of the Type III Burst Exciter
Robert A. Smith, Melvyn L. Goldstein, and Konstantinos Papadopoulos 46, 515
- Scattering in the Radiation Source and the Fundamental-Harmonic Hypothesis
Dean F. Smith 46, 529 *Erratum/Replacement Figure: Fig. 2 - 53, 547*
- Type III Solar Radio Bursts and the Fundamental-Harmonic Hypothesis (*Title Only, paper published in Solar Phys. 42, 247*)
Hans Rosenberg 46, 541
- Comments on the Mechanism of Type III Bursts
Paul J. Kellogg 46, 543
- The Onset of Flares at the Meter Wavelengths
S. F. Smerd and G. A. Dulk 47, 285

Direction-Finding Measurements of Type III Radio Bursts out of the Ecliptic Plane

Mark M. Baumbach, William S. Kurth, and Donald A. Gurnett **48**, 361

H α Observations of the August 12, 1975 Type III-RS Bursts

Barry J. LaBonte **50**, 201

Source Heights of Metre Wavelength Bursts of Spectral Types I and III

R. T. Stewart **50**, 437

Solar Radio Type III Bursts and Coronal Density Structures

Yolande Leblanc and Jérôme de la Noë **52**, 133

Collisionless Deceleration of Fast Electron Streams in the Solar Coronal Plasma

L. L. Bazelyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **52**, 141

Radio Observations of Interplanetary Magnetic Field Structures out of the Ecliptic

R. J. Fitzenreiter, J. Fainberg, R. R. Weber, H. Alvarez, F. T. Haddock, and W. H. Potter **52**, 477

Relationship between Type III and Microwave Radio Bursts and the Role of Magnetic Configuration

M. Pick **53**, 241

Interplanetary Baseline Observations of Type III Solar Radio Bursts

R. R. Weber, R. J. Fitzenreiter, J. C. Novaco, and J. Fainberg **54**, 431

Radio and Soft X-Ray Evidence for Dense Non-Potential Magnetic Flux Tubes in the Solar Corona

R. T. Stewart and Joan Vorpahl **55**, 111

The Spectrum and Position of Solar Noise Storms at Decameter Wavelengths

Jérôme de la Noë and Tomas E. Gergely **55**, 195

Nonrelativistic Electron Stream Propagation in the Solar Atmosphere and Type III Radio Bursts

G. R. Magelssen and D. F. Smith **55**, 211

A Study of Type V Solar Radio Bursts. I: Observations

R. D. Robinson **55**, 459

Structure and Evolution of Solar Radio Bursts at 26.4 MHz

Henry Sha-Lin Chen and Stanley D. Shawhan **57**, 205

On the Coronal Source Regions of U Bursts

S. Suzuki **57**, 415

Reply to the Paper 'Solar Radio Type III Bursts and Coronal Density Structures' by Y. Leblanc and J. de la Noë

Claude Mercier **57**, 423

Relationship between Type III-V Radio and Hard X-Ray Bursts

R. T. Stewart **58**, 121

Low Frequency Spectra of Type III Solar Radio Bursts

Richard R. Weber **59**, 377

Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. III: Radio Emissions from Plasma Waves

T. Takakura **61**, 143

Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. IV: Simulation for Type III Solar Radio Bursts

T. Takakura **61**, 161

Harmonic Structure of Type IIIb and Type III Bursts

E. P. Abranin, L. L. Baselyan, N. Yu. Goncharov, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **62**, 145

Low Frequency Turbulence in the Solar Corona and Fundamental Radiation of Type III Solar Radio Burst

T. Takakura **62**, 375

Numerical Simulation of Type III Solar Radio Bursts Caused by High-Density Electron Beam

T. Takakura **62**, 383

Skylab Observations of the Coronal Structure Overlying a Type III Producing Active Region

M. Pick, G. Trottet, and R. M. MacQueen **63**, 369

An Analysis of Type III Burst Occurrence in Spotless Regions

C. Zanelli, P. Zlobec, and U. Koren **65**, 387

Variations of Type III Burst Parameters during a Decametric Solar Storm

E. P. Abranin, L. L. Baselyan, V. O. Rapoport, and Ya. G. Tsybko **66**, 333

Observations and Interpretation of Solar Decameter Type IIIb Radio Bursts

V. Krishan, K. R. Subramanian, and Ch. V. Sastry **66**, 347

- Positions of Solar Storm Burst Sources by Observations with a Heliograph Based on the UTR-2 Antenna at 25 MHz
E. P. Abranin, L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **66**, 393
- On the Correlation between Exciter Duration and Decay Constant of Solar Decameter Type III Radio Bursts
K. R. Subramanian, V. Krishan, and Ch. V. Sastry **70**, 375
- Decameter Studies of the 5 September 1973 Flare
T. E. Gergely and M. R. Kundu **71**, 65
- Radio and X-Ray Observations of a Multiple Impulsive Solar Burst with High Time Resolution
Takeo Kosugi **71**, 91
- Type III Bursts and Coronal Temperature
M. Karlický **71**, 381
- A Comparison of Type III Metric Radio Bursts and Global Solar Potential Field Models
Bernard V. Jackson and Randolph H. Levine **73**, 183
- Fundamental Wave of Type III Solar Radio Bursts and Whistler Waves
T. Takakura **75**, 277
- Positions of Type II Fundamental and Harmonic Sources in the 30-100 MHz Range
H. S. Sawant, T. E. Gergely, and M. R. Kundu **77**, 249
- Remote Flare Brightenings and Type III Reverse Slope Bursts
Frances Tang and R. L. Moore **77**, 263
- Numerical Simulation of Type III Solar Radio Bursts on Meter- and Hectometric-Waves
T. Takakura **78**, 141
- Positional Characteristics of Meter-Decameter Wavelength Bursts Associated with Hard X-Ray Bursts
M. R. Kundu, T. E. Gergely, and S. R. Kane **79**, 107
- Fundamental Emission for Type III Bursts in the Interplanetary Medium: The Role of Ion-Sound Turbulence
D. B. Melrose **79**, 173
- Is There a Common Explanation for Scattering of Type III Radio Bursts and Solar Radar?
Donat G. Wentzel **79**, 375
- On the Spectra of Type-III Solar Radio Bursts Observed at Low Frequencies
Héctor Alvarez **81**, 355
- Limitation Imposed by Strong Langmuir Turbulence on the Self-Consistency of the Quasi-Linear Dynamics
R. J.-M. Grogard **83**, 207
- X-Ray and Radio Emissions in the Early Stages of Solar Flares
A. O. Benz, C. H. Barrow, B. R. Dennis, M. Pick, A. Raoult, and G. Simnett **83**, 267
- Radio Emission by Parallel Acceleration Mechanism
V. Krishan and C. Sivaram **84**, 125
- Correlation of Hard X-Ray and Type III Bursts in Solar Flares
Vahe Petrosian and John Leach **87**, 165
- Frequency Splitting in Stria Bursts: Possible Roles of Low-Frequency Waves
D. B. Melrose **87**, 359
- The Source Model of Low-Energy Electrons Responsible for Type I and Type III Radio Noise Storms
V. M. Gubchenko and V. V. Zaitsev **89**, 391
- Progress and Problems in the Theory of Type III Solar Radio Emission
Martin V. Goldman **89**, 403
- Polarization of Fundamental Type III Radio Bursts
Donat G. Wentzel **90**, 139
- Radio and Visible-Light Observations of a Coronal Arcade Transient
T. E. Gergely, M. R. Kundu, F. T. Erskine, III, C. Sawyer, W. J. Wagner, R. Illing, L. L. House, M. K. McCabe, R. T. Stewart, G. J. Nelson, M. J. Koomen, D. Michels, R. Howard, and N. Sheeley **90**, 161
- Decimetric Type III Radio Bursts and Associated Hard X-Ray Spikes
B. R. Dennis, A. O. Benz, M. Ranieri, and G. M. Simnett **90**, 383
- Harmonic Relation of Type IIIb-III Solar Radio Bursts in 6.25, 12.5, and 25.0 MHz Octaves
E. P. Abranin, L. L. Bazelyan, and Ya. G. Tsybko **91**, 377
- Harmonic Components of Decametric Solar Radio Bursts
Ya. G. Tsybko **92**, 299

- A Quasi-One-Dimensional Velocity Regime of Super-Thermal Electron Stream Propagation through the Solar Corona
B. N. Levin **92**, 317
- Irregular Paths of Exciting Electrons and the Intensity-Time Profiles of Type III Bursts
A. D. Fokker **93**, 379
- Partial Reconstruction of the Initial Conditions for Streams of Energetic Electrons Associated with a Solar Type III Burst
R. J.-M. Grogard **94**, 165
- Ejection of Chromospheric Material Associated with Injection of Electrons in the Solar Corona
N. Mein and Y. Avignon **95**, 331
- Quenching of the Beam-Plasma Instability by Large-Scale Density Fluctuations in 3 Dimensions
L. Muschietti, M. V. Goldman, and D. Newman **96**, 181
- Rapid Fluctuations in the Position, Size, and Brightness of Intense Solar Metre-Wave Radio Sources
R. A. Duncan **97**, 173
- Energetic Solar Electrons in the Interplanetary Medium (*Invited Review Paper*)
R. P. Lin **100**, 537

Radio Bursts, Type IV

- A Model for Type-IV Emission in the Solar Burst of June 9, 1959 at Decametric Wavelengths
James W. Warwick **5**, 111
- Determination of the Coronal Magnetic Field and the Radio-Emitting Electron Energy from a Type IV Solar Radio Burst
Reuven Ramaty and Richard E. Lingenfelter **5**, 531
- Comment on the Note by Friedman and Hamberger
Z. Švestka **8**, 400
- Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data
J. David Bohlin and M. Simon **9**, 183
- On the Origin of Type II and IV Radio Sources during Flares Observed by a Radioheliograph on 80 MHz
L. Krivský **9**, 194
- Observation of the Magnetic Structure of a Type IV Solar Radio Outburst
J. P. Wild **9**, 260
- Pulsating Radio Emissions from the Solar Corona
A. Abrami **11**, 104
- The Structure, Polarization, and Spatial Relationship of Solar Radio Sources of Spectral Types I and III
K. Kai **11**, 456
- Interpretation of Type I- and IV mB-Bursts and Noise Storms by Mode Coupling in the Warm Plasma
L. Mollwo **12**, 125
- Evidence of Type II and Type IV Solar Radio Emission from a Common Flare-Induced Shock Wave
R. T. Stewart and K. V. Sheridan **12**, 229
- 80 MHz Observations of a Moving Type IV Solar Burst, March 1, 1969
A. C. Riddle **13**, 448
- Comparison of Dynamic Radio Spectra of the September 2, 1966 Complex Burst Recorded at Culgoora and at Weissenau
H. Urbarz **13**, 458
- Solar Radio Spectra between 160 and 320 MHz
T. de Groot **14**, 176
- Positions and Motions of Solar Bursts at Decameter Wavelengths
M. R. Kundu, W. C. Erickson, P. D. Jackson, and J. Fainberg **14**, 394
- Wave Propagation in the Warm Plasma and the Spectrum of the Solar Radio Bursts
L. Mollwo **19**, 128
- Mass Motions in a Flare Spray
Marie K. McCabe **19**, 451
- Spectral Features of Large Type IV Bursts and Interrelation to Solar-Terrestrial Phenomena
S. T. Akinyan, E. I. Mogilevsky, A. Böhme, and A. Krüger **20**, 112
- A Moving Type IV Radio Burst and Its Relation to the Coronal Magnetic Field
George A. Dulk and Martin D. Altschuler **20**, 438

- On the Temporal Distribution of Type IV Burst-Active Centres over the Solar Cycle
A. Krüger and B. Trinkkeller 24, 233
- The Time Behavior of the Continua during the Initial Stage of Type IV Bursts
A. Böhme 24, 457
- A Possibly Direct Measurement of Coronal Magnetic Field Strengths
Hans Rosenberg 25, 188
- Peculiar Absorption and Emission Microstructures in the Type IV Solar Radio Outburst of March 2, 1970
C. Slottje 25, 210 *Addendum* 26, 259
- Spectral Behaviour and Proton Effects of the Type IV Broad-Band Continua
A. Böhme 25, 478
- The Time-Latitude Distribution of Solar Flares Accompanied by Type IV Radio Bursts during the Period 1956 to 1969
Michael D. Papagiannis, Christos S. Zerefos, and Christos C. Repapis 27, 208
- On the S- and B-Components of Solar Radio and X-Emission and Their Relationships to Energetic Solar Events
A. Krüger 27, 217
- Interferometer Observation of Pulsating Sources Associated with a Type IV Solar Radio Burst
Keizo Kai and Akio Takayanagi 29, 461
- A High Resolution Study in Time, Position, Intensity, and Frequency of the Radio Event of January 14, 1971
C. Caroubalos, M. Pick, H. Rosenberg, and C. Slottje 30, 473
- Interpretation of Distinct Type IVmA- and IV μ -Bursts on the Basis of Micro-Instabilities and of Resonant Nonlinear Interaction of Waves
L. Mollwo 30, 497
- The Initial Stage of Development of Type IV Radio Bursts and the Relation to Expanding Magnetic Bottles
Kunitomo Sakurai 31, 483
- The Gyro-Synchrotron Radiation from Moving Type IV Sources in the Solar Corona
G. A. Dulk 32, 491
- Nonlinear Wave Coupling in Type IV Solar Radio Bursts
Claudio Chiuderi, Riccardo Giachetti, and Hans Rosenberg 33, 225
- Pulsating Type IV Solar Radio Bursts
B. L. Gotwols 33, 475
- Decameter Type IV Bursts Associated with Coronal Transients
T. E. Gergely and M. R. Kundu 34, 433
- The Coronal Disturbance of 1972, August 12
Anthony C. Riddle, Einar Tandberg-Hanssen, and Richard T. Hansen 35, 171
- A Coherent Radiation Mechanism for Type IV dm Radio Bursts
Jan Kuijpers 36, 157
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . I: First Event of 1973 January 11
R. T. Stewart, Marie K. McCabe, M. J. Koomen, R. T. Hansen, and G. A. Dulk 36, 203
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . II: Second Event of 1973 January 11
R. T. Stewart, R. A. Howard, F. Hansen, T. Gergely, and M. Kundu 36, 219
- Shock Waves Generated by the Intense Solar Flare of 1972, August 7, 15:00 UT
A. Maxwell and R. Rinehart 37, 437
- Polarization Features of Type IV Bursts
A. Böhme, F. Fürstenberg, and A. Krüger 39, 207
- Radio Evidence for an Expanding Magnetic Arch beyond 20 Solar Radii
R. G. Stone and Joseph Fainberg 42, 179
- Plasma Emission Due to Isotropic Fast Electrons, and Types I, II and V Solar Radio Bursts
D. B. Melrose 43, 211
- Generation of Intermediate Drift Bursts in Solar Type IV Radio Continua through Coupling of Whistlers and Langmuir Waves
Jan Kuijpers 44, 173
- Observations of a Complex Solar Radio Burst with Fine Structure on 3 May 1973
G. P. Chernov, O. S. Korolev, and A. K. Markeev 44, 435
- A Model for the Development of a Solar Outburst Based on Observations with the Culgoora Radio Spectrograph and Heliograph
Keizo Kai 45, 217

The Solar Radio Event of January 14, 1971. Position and Polarization Behaviour in the Middle Corona
A. Abrami **46**, 229

Type IV dm Bursts: Onset and Sudden Reductions

Arnold O. Benz and Jan Kuijpers **46**, 275 *Erratum/Replacement Figures: Figs. 6, 7 - 53, 547*

Type II-IV Radio Bursts and Compact and Diffuse White-Light Clouds in the Outer Corona of December 14, 1971

Takeo Kosugi **48**, 339

The Speeds of Coronal Mass Ejection Events

J. T. Gosling, E. Hildner, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross **48**, 389

A Model Explaining Type IV Continuum Bursts by Coherent Nonlinear Interaction of Bernstein Waves

L. Mollwo and K. Sauer **51**, 435

A Two-Component Model of Impulsive Microwave Burst Emission Consistent with Soft and Hard X-Rays

A. Böhme, F. Fürstenberg, J. Hildebrandt, O. Saal, A. Krüger, P. Hoyng, and G. A. Stevens **53**, 139

Relation between Circular Polarization of Moving Type IV Bursts and Polarity of Photospheric Magnetic Fields

Keizo Kai **56**, 417

Structure and Evolution of Solar Radio Bursts at 26.4 MHz

Henry Sha-Lin Chen and Stanley D. Shawhan **57**, 205

Pulsations of Type IV Solar Radio Emission: The Bounce-Resonance Effects

B. I. Meerson, P. V. Sasorov, and A. V. Stepanov **58**, 165

Radioheliograph Observations of a Pulsating Structure Associated with a Moving Type IV Burst

M. Pick and G. Trottet **60**, 353

Observations and Interpretation of Moving Type IV Solar Radio Bursts

R. D. Robinson **60**, 383

A Statistical Study of Moving Type IV Bursts Based on Culgoora Radioheliograph Observations

Keizo Kai **61**, 187

A Comparison of the Optical and Microwave Emissions of Some Major Solar Flares

Jean-René Roy **64**, 143

Estimation of Coronal Magnetic Field from Razin Effect in Solar Decametric Continuum Burst

R. V. Bhonsle and S. S. Degaonkar **68**, 339

Langmuir-Wave Conversion as the Explanation of Moving Type IV Solar Meter-Wave Radio Outbursts

R. A. Duncan **73**, 191

Kinematical Analysis of Flare Spray Ejecta Observed in the Corona

D. F. Webb and B. V. Jackson **73**, 341

A Long-Enduring Multi-Source Burst at 17 GHz and Its Relation to a Type IV_{m-dm} Burst with Spectral Fine Features

Takeo Kosugi **75**, 293

A Note on the Mechanism of Broad Band Absorptions and Emissions in the Type IV Decimeter Continuum

A. D. Fokker **77**, 255

Positional Characteristics of Meter-Decameter Wavelength Bursts Associated with Hard X-Ray Bursts

M. R. Kundu, T. E. Gergely, and S. R. Kane **79**, 107

Spectral Evidence of Type II Shock Influence on Razin-Cutoff Frequency in the Decametric Type IV Continuum

S. S. Degaonkar and H. W. Urbarz **84**, 285

The Relative Importances of Solar Type IV Radio Bursts and Flare-Site Magnetic Field Orientations as Predictors of Geomagnetic Activity

L. F. McNamara and C. S. Wright **84**, 289

Association between Gradual Hard X-Ray Emission and Metric Continua during Large Flares

L. Klein, K. Anderson, M. Pick, G. Trottet, N. Vilmer, and S. Kane **84**, 295

Zebra Pattern Flux Density Observation during the Type IV Burst on October 12, 1981

H. Aurass and G. P. Chernov **84**, 339

Source Characteristics of Main and Post-Burst-Increase Phases of Solar Bursts at 17 GHz

Takeo Kosugi, Keizo Kai, and Takashi Suzuki **87**, 373

Radio and Visible-Light Observations of a Coronal Arcade Transient

T. E. Gergely, M. R. Kundu, F. T. Erskine, III, C. Sawyer, W. J. Wagner, R. Illing, L. L. House, M. K. McCabe, R. T. Stewart, G. J. Nelson, M. J. Koomen, D. Michels, R. Howard, and N. Sheeley **90**, 161

Pulsations of Type IV Radio Bursts as an Indicator of Protonability of Solar Flares

V. V. Zaitsev, A. V. Stepanov, and G. P. Chernov **93**, 363

A Coherent Radiation Mechanism for Type IV Solar Radio Bursts

G. S. Lakhina and B. Buti 99, 277

Radio Bursts, Type V (*see Radio Bursts*)

Radio Emission

Some Statistical Properties of Surges

Hans Westin 7, 393

Pulsating Radio Emissions from the Solar Corona

A. Abrami 11, 104

Solar Active Regions at Millimeter Wavelengths

M. R. Kundu 13, 348

Radio Maps of the Sun at $\lambda = 1.95$ cm

Franca Chiudereri Drago and Marcello Felli 14, 171

Radio Observations of Filaments during the Eclipses of September 11, 1969 and March 7, 1970

M. Simon and Bengt-Arne Wickström 20, 122

High Resolution Observations of the Chromosphere at mm and cm Wavelengths

M. Simon 21, 297

Observations of Prominences at 3.5 Millimeter Wavelength

M. R. Kundu 25, 108

Peculiar Absorption and Emission Microstructures in the Type IV Solar Radio Outburst of March 2, 1970

C. Slottje 25, 210 Addendum 26, 259

A Study of Solar Radio Emission in the Light of Sengupta's Model of Coronal Active Regions

P. R. Sengupta and A. K. Chakraborty 30, 395

The Brightness Distribution of the Sun at 2.8 cm Wavelength

E. Fürst, O. Hachenberg, and W. Zinz 32, 445

Fine Structure of the Sun at 1.3 cm Wavelength

M. R. Kundu and T. Velusamy 34, 125

Solar Radio Emission at 9.1 cm and Sector Boundaries

W. Graf and R. N. Bracewell 44, 195

On the Structure of Filaments from Centimeter and Millimeter Observations

M. Butz, E. Fürst, W. Hirth, and M. R. Kundu 45, 125

Study of a Filament with a Circularly Polarized Beam at 3.8 cm

Ronald M. Straka, Michael D. Papagiannis, and John A. Kogut 45, 131

The July 1974 Solar Events: A Possible Lower Limit for Microwave Activity

P. Kaufmann, P. Iacomo, Jr., E. H. Koppe, P. Marques dos Santos, R. E. Schaal, and J. R. Blakey 45, 189

Variation of the Solar Atmospheric Rotation over the 11 Year Cycle

Mohamed El-Raey and R. Amer 45, 533

Differential Rotation of the Solar Atmosphere as Determined from Millimeter Data

Sou-Yang Liu and M. R. Kundu 46, 15

3.5 mm Depression Features Associated with $H\alpha$ 'Disparitions Brusques'

M. R. Kundu and P. Lantos 52, 393

Coronal X-Ray Holes and the Quiet Radio Sun at 2800 MHz

Arthur E. Covington 54, 393

A Study of Filament Transition Sheath from Radio Observations

A. Pramesh Rao and M. R. Kundu 55, 161

Prominences at Centimetric and Millimetric Wavelengths. I: Size and Spectrum of the Radio Filaments

A. Raoult, P. Lantos, and E. Fürst 61, 335

Prominences at Centimetric and Millimetric Wavelengths. II: Radio Diagnostic of the Prominences

P. Lantos and A. Raoult 66, 275

Correlated Variations of Planetary Albedos and Coincident Solar-Interplanetary Variations

Steven T. Suess and G. W. Lockwood 68, 393

Periodicities in the λ 10 cm Solar Flux

V. A. Hughes and M. J. L. Kesteven 71, 259

Observations of Solar Filaments at 8, 15, 22 and 43 GHz

E. J. Schmahl, M. Bobrowsky, and M. R. Kundu 71, 311

First Results from the Clark Lake Multifrequency Radioheliograph

M. R. Kundu, W. C. Erickson, T. E. Gergely, M. J. Mahoney, and P. J. Turner **83**, 385

The Diameter of the Sun at Decameter Wavelengths

T. E. Gergely, B. D. Gross, and M. R. Kundu **99**, 323**Radio Emission, Active Regions** (*see also Radio Emission, S-Component*)

Observation of the S-Component of the Solar Radio Emission by an Eight Element Grating Interferometer at 17 Gc/s

Atsushi Tsuchiya and Kiyoshi Nagane **1**, 121

Occultation of a Noise Storm Source during the Partial Solar Eclipse of May 20, 1966

V. Letfus, A. Tlamicha, and B. Valnřček **1**, 474

The Solar Corona above Active Regions: A Comparison of Extreme Ultraviolet Lines with Radio Emission

Werner M. Neupert **2**, 294

Homology of Solar Flare-Associated Radio Events

A. D. Fokker **2**, 316

Spectrum of Slowly Varying Component of Solar Radio Emission on Millimeter Wavelengths

Atsushi Tsuchiya and Kozo Takahashi **3**, 346

Directivity of Solar Microwave Bright Regions

U. V. Gopala Rao **4**, 428

The Spectrum of the Slowly Varying Component of Solar Radio Emission at Wavelengths of 3.3 mm - 21 cm

A. Tlamicha **5**, 377

Height of the Slowly Varying Component of Radio Emission at 9.1 cm during the Quiet Sun Years

A. C. Riddle **6**, 251

The Slowly Varying Component of the Solar Radio Emission around 1 cm Wavelength

Atsushi Tsuchiya **7**, 268

Radio Observation of the Solar Eclipse of May 20, 1966

F. G. Drago and G. G. Noci **7**, 276

The Quiet and Slowly Varying Components of 9.1 cm Radio Emission during the Solar Minimum

A. C. Riddle **7**, 434

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. II: Statistical Properties of the Microwave Emission Associated with Sunspots

J. Roosen **8**, 204

Observation of Solar Radio Emission by the 22-m Radio Telescope at the Crimean Astrophysical Observatory at 2.25 mm and 8.15 mm Wavelengths

V. A. Efanov, A. G. Kislyakov, I. G. Moiseev, and A. I. Naumov **8**, 331

Type III Radio Bursts in the Outer Corona

J. K. Alexander, H. H. Malitson, and R. G. Stone **8**, 388

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. III: Sunspots and Geomagnetic Activity

J. Roosen **8**, 450

The Radio-Emission and Ca-Brightness of Two Outstanding Active Regions during Their Lifetime

G. Feix **10**, 184

The Polarization of Solar Radio Emission at 74 MHz: May 18-26, 1967

G. A. Harvey and L. R. McNarry **11**, 467

Sympathetic Radiobursts at mm-Wavelengths

G. Feix **13**, 227

The Development and Flaring of an Active Region Exhibiting Unusual Magnetic Structure. II: Active Regions

Peter Foukal **13**, 330

Solar Active Regions at Millimeter Wavelengths

M. R. Kundu **13**, 348

Radio Spectrum of Two Active Regions. (Results of the Total Solar Eclipse of Nov. 12, 1966)

Franca Chiuderi Drago **13**, 357

Variations in Solar Emission at 3.3 mm Wavelength and Their Relation to Flares

Earle B. Mayfield, John Higman, and Clifton Samson **13**, 372Radio Maps of the Sun at $\lambda = 1.95$ cmFranca Chiuderi Drago and Marcello Felli **14**, 171

Coronal Magnetic Field Patterns Inferred from Radio Observations

M. F. Lantos-Jarry 15, 40

The Origin of Interplanetary Sectors from Radio Observations

M. Martres, M. Pick, and G. K. Parks 15, 48

Type III Solar Radio Burst Storms Observed at Low Frequencies. I: Storm Morphology

Joseph Fainberg and R. G. Stone 15, 222

Solar Enhancements at 1.2 mm Wavelength

J. E. Beckman and C. D. Clark 16, 87

On the Characteristics of the Solar Active Regions Responsible for the Generation of Type III Radio Bursts at Hectometric Frequencies in August 1968

Kunitomo Sakurai 16, 125

Eclipse Measurements near 1.2 cm Wavelength on September 11, 1969

Mohamed El-Raey 16, 404

The Impulsiveness of Microwave Bursts and Its Association with Sunspot Types

O. T. Matsuura and M. F. F. Nave 16, 417

A Method of Calculating 0-20 Å Solar X-Ray Flux and Its Spectral Distribution Using 9.1 cm Spectroheliograms

P. R. Sengupta 17, 160

Radio Model of the Transition Layer in Solar Active Regions

Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci 17, 369

Soft Solar X-Rays and Solar Activity. V: Relation of the Course of Soft X-Ray Fluctuations to the Course of Solar Activity, 9 March, 1967-18 May, 1968

Richard G. Teske 19, 356

Solar Radio Emission at 1.2 mm Wavelength

M. R. Kundu 21, 130

Eclipse of Radio Emission on 7 March, 1970 at 10 cm Wavelength from the Active Region Associated with McMath Plage 10618

Earle B. Mayfield, Gary A. Chapman, and Ronald M. Straka 21, 460

Spectral Radio Observations of a Solar Eclipse

R. M. Straka 21, 469

Polarization of Solar Active Regions at 9.5 mm Wavelength

M. R. Kundu and T. P. McCullough 24, 133

Slowly Varying Component Spectrum of the Solar Radio Emission at Millimetre Wavelengths

V. A. Efanov, A. G. Kislyakov, and I. G. Moiseev 24, 142

On the Temporal Distribution of Type IV Burst-Active Centres over the Solar Cycle

A. Krüger and B. Trinkkeller 24, 233

A Search of a Connection between the Polarization of Decam-Type III Bursts and Magnetic Fields in Different Heights of the Solar Atmosphere

I. M. Chertok, V. V. Fomichev, A. Krüger, and W. Willimczik 25, 452

Centimeter Radiation Associated with the Solar Limb Prominence of 8 February 1972

M. B. Bell 27, 137

Polarization Structure of a Solar Flare Region at 9.5 mm Wavelength

M. R. Kundu and T. P. McCullough 27, 182

On the Long-Term Behaviour of the Circular Polarization from Coronal Condensation Radio Emission at 4.3 cm Wavelength

M. H. Paes de Barros and P. Kaufmann 27, 203

Polarization Interferometer for 2800 MHz Solar Noise Studies with a 0.5' Fan Beam

M. B. Bell, A. E. Covington, and W. A. G. Kennedy 28, 123

The Height of 9.1 cm Solar Emission from Latitude Shift

W. Graf and R. N. Bracewell 28, 425

Search for Circular Polarized Emission from Solar Hemispheres at Microwaves

P. Kaufmann, E. Scalise, Jr., R. E. Schaal, J. R. D. Lépine, D. Basu, and A. L. Ibañez 29, 393

Solar Active Regions at 9 and 3.5 mm Wavelengths under Disturbed Conditions

M. R. Kundu and Sou-Yang Liu 29, 409

Correlation and Spectral Analysis of Daily Solar Radio Flux

Mohamed El-Raey and Phillip Scherrer 30, 149

- Polarization Inversions in the Radio Emission at 237 MHz of McMath Zone 11482
Paolo Santin **30**, 159
- Polarization of Solar Active Regions at 3.5 Millimeter Wavelength
M. R. Kundu and T. Gergely **31**, 461
- The Brightness Distribution of the Sun at 2.8 cm Wavelength
E. Fürst, O. Hachenberg, and W. Zinz **32**, 445
- Microwave Observations of the 4 January, 1973 Solar Eclipse
P. Kaufmann, E. Scalise, Jr., P. Marques dos Santos, R. E. Schaal, and R. A. A. Fortunato **33**, 69
- Latitude and Solar-Cycle Dependence of the Height of 9.1 cm Radio Emission
W. Graf and R. N. Bracewell **33**, 75
- Coronal Prominences on the Disk Observed on 29 October 1972
Ichiro Kawaguchi and Reizaburo Kitai **33**, 145
- Detailed Comparison of Type III Radio Bursts with H α Activity. II: The Isolated Type III Activity of March and April, 1971
T. B. H. Kuiper **33**, 461
- Fine Structure of a Solar Active Region at 3.7 and 11.1 cm Wavelengths
M. R. Kundu, R. H. Becker, and T. Velusamy **34**, 185
- Coupling of Microwaves at a Selected Solar Active Centre
Eugenio Scalise, Jr. and Pierre Kaufmann **34**, 189
- Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations
K. Kai and K. V. Sheridan **35**, 181
- Meter and Decameter Wavelength Positions of Solar Bursts of July 31-August 7, 1972
M. R. Kundu and W. C. Erickson **36**, 179
- High Resolution Interferometry of the Sun at 3.7 cm Wavelength
Kenneth R. Lang **36**, 351
- 1.0 Arc Second Structure on the Sun at 3.71 cm Wavelength
Robert W. Hobbs, Stuart D. Jordan, William J. Webster, Jr., Stephen P. Maran, and Howard M. Caulk **36**, 369
- On the Probability of Occurrence of the Type IIIb Burst as a Precursor
Jérôme de la Noë **37**, 225
- Fine Structure of a Very Bright Active Region at a Wavelength of 2.8 cm
M. Felli, P. Pampaloni, and G. Tofani **37**, 395
- The Microwave Structure of Coronal Condensations and Its Relation to Proton Flares
Haruo Tanaka and Shinzo Énomé **40**, 123
- On the Nature of Some Active Regions in the Microwave Range
M. Felli, G. Tofani, E. Fürst, and W. Hirth **42**, 377
- Source Regions for Type II Radio Bursts
James C. Dodge **42**, 445
- Discussion on the Coronal Structure Related to Type III Bursts
M. Pick, M.-J. Martres, F. Axisa, and C. Mercier **42**, 461
- Decameter Storm Radiation, I
Thomas E. Gergely and William C. Erickson **42**, 467
- Solar Radio Emission at 9.1 cm and Sector Boundaries
W. Graf and R. N. Bracewell **44**, 195
- The July 1974 Solar Events: A Possible Lower Limit for Microwave Activity
P. Kaufmann, P. Iacomo, Jr., E. H. Koppe, P. Marques dos Santos, R. E. Schaal, and J. R. Blakey **45**, 189
- Pre-Flare Association of Magnetic Fields and Millimeter-Wave Radio Emission
E. B. Mayfield and K. P. White, III **47**, 277
- A Simple Derivation of Microwave Solar Brightness Temperatures and Polarizations from Thermal Regions
Michael D. Papagiannis and John A. Kogut **48**, 49
- One Dimensional Aperture Synthesis Observations at 2.8 cm of the Brightness Distribution over the Solar Equator
Ambretta Donati Falchi, Marcello Felli, and Gianni Tofani **48**, 59
- Comparison of the 9.1 cm and Soft X-Ray Emission from an Active Region
M. Gerassimenko, J. T. Nolte, and R. D. Petrasso **48**, 121

- Active Region Flare Rates and 8.6 mm Brightness Temperatures
George L. Withbroe and Jorge E. Vernazza **50**, 127
- Magnetic and Microwave Structure in Solar Active Regions
Marcello Felli, Giannina Poletto, and Gianni Tofani **51**, 65
- The Shock Waves and the Magnetic Field in the Corona above the Active Region on February 17-28, 1969
Irena Garczyńska **51**, 131
- High Resolution Polarimetry of the Sun at 3.7 and 11.1 cm Wavelengths
Kenneth R. Lang **52**, 63
- Solar Radio Type III Bursts and Coronal Density Structures
Yolande Leblanc and Jérôme de la Noë **52**, 133
- Noise Storms and Particular Photospheric Magnetic Structures
C. Zanelli and P. Zlobec **53**, 497
- The Spectrum and Position of Solar Noise Storms at Decameter Wavelengths
Jérôme de la Noë and Tomas E. Gergely **55**, 195
- The Development and Structure of Bright Active Regions at 2.8 cm
A. Donati Falchi, M. Felli, P. Pampaloni, and G. Tofani **56**, 335
- Manifestation of Pulsation Instability in Solar Radio Emission Preceding Proton Flares
M. M. Kobrin, A. I. Korshunov, S. I. Arbutov, V. V. Pakhomov, V. M. Fridman, and Yu. V. Tikhomirov **56**, 359
- The Height of the 9 cm Solar Emission
M. Waldmeier **57**, 369
- Reply to the Paper 'Solar Radio Type III Bursts and Coronal Density Structures' by Y. Leblanc and J. de la Noë
Claude Mercier **57**, 423
- The Sun at 8.5 mm Wavelength - Results of Observations with High Angular Resolution
O. Hachenberg, P. Steffen, and W. Harth **60**, 105
- Skylab Observations of the Coronal Structure Overlying a Type III Producing Active Region
M. Pick, G. Trotter, and R. M. MacQueen **63**, 369
- Fine Structure of the S-Component Spectrum of the Solar Radio Emission in the Frequency Range 5.0-7.0 GHz
N. S. Kaverin, M. M. Kobrin, A. I. Korshunov, and V. V. Shushunov **63**, 379
- Radio Interferometric Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths
M. R. Kundu and P. E. Angerhofer **64**, 159
- Variations of Type III Burst Parameters during a Decametric Solar Storm
E. P. Abranin, L. L. Baselyan, V. O. Rapoport, and Ya. G. Tsybko **66**, 333
- Positions of Solar Storm Burst Sources by Observations with a Heliograph Based on the UTR-2 Antenna at 25 MHz
E. P. Abranin, L. L. Baselyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko **66**, 393
- Five Minute Microwave Solar Oscillations
F. M. Strauss, P. Kaufmann, and R. Opher **67**, 83
- A Long-Enduring Multi-Source Burst at 17 GHz and Its Relation to a Type IV_{m-dm} Burst with Spectral Fine Features
Takeo Kosugi **75**, 293
- Source Structure of Gradual Rise and Fall Bursts at 17 GHz
K. Kai, T. Kosugi, and H. Nakajima **78**, 243
- Multiple Wavelength Observations of a Solar Active Region
Franca Chiuderi-Drago, Rino Bandiera, Roberto Falciani, Ester Antonucci, Kenneth R. Lang, Robert F. Willson, Kioto Shibasaki, and Cornelis Slottje **80**, 71
- Active Region Magnetic Fields Inferred from Simultaneous VLA Microwave Maps, X-Ray Spectroheliograms, and Magnetograms
E. J. Schmahl, M. R. Kundu, K. T. Strong, R. D. Bentley, J. B. Smith, Jr., and K. R. Krall **80**, 233
- Preliminary Observations of Solar Sources with the Culgoora Radioheliograph Operating at Four Frequencies
K. V. Sheridan, N. R. Labrum, W. J. Payten, G. J. Nelson, and E. R. Hill **83**, 167
- X-Ray and Microwave Observations of Active Regions
D. F. Webb, J. M. Davis, M. R. Kundu, and T. Velusamy **85**, 267
- Spatial Characteristics of Microwave Bursts
M. R. Kundu **86**, 205

- Possible Detection of Thermal Cyclotron Lines from Small Sources within Solar Active Regions
Robert F. Willson **89**, 103
- Microwave, Ultraviolet, and Soft X-Ray Observations of Hale Region 16898
Kiyoto Shibasaki, Franca Chiuderi-Drago, Mauro Melozzi, Cornelis Slottje, and Ester Antonucci **89**, 307
- Observations of Preburst Heating and Magnetic Field Changes in a Coronal Loop at 20 cm Wavelength
Robert F. Wilson **92**, 189
- Solar Noise Storms Coordinated Observations: May 16-24, 1981 (Summary of Results of a Cooperative Study)
C. Mercier, Ø. Elgarøy, A. Tlamicha, and P. Zlobec **92**, 375
- Pulsations of Microwave Emission as a Consequence of Oscillatory Transients in the Solar Atmosphere
V. G. Zandanov and A. M. Uralov **93**, 301
- Sharp Edges in Solar Microwave Spectra: Neutral Current Sheets or Cyclotron Lines?
E. J. Schmahl, R. K. Shevgaonkar, M. R. Kundu, and D. McConnell **93**, 305
- Cyclotron Radio Emission in Plasma with Steep Temperature Gradient
M. Siarkowski **94**, 105
- Structure and Polarization of Active Region Microwave Emission
M. R. Kundu and C. E. Alissandrakis **94**, 249
- Solar Noise Storms and Magnetic Sector Structures
R. T. Stewart **96**, 381
- Coronal Structures Observed at Metric Wavelengths with the Nançay Radioheliograph
C. E. Alissandrakis, P. Lantos, and E. Nicolaidis **97**, 267
- High Spatial Resolution Microwave Observations of the Sun (*Invited Review Paper*)
M. R. Kundu **100**, 491
- Radio Emission, Association with Non-Flare Phenomena (see Radio Emission)**
- Radio Emission, Models**
- The Starting Frequencies of Type III Bursts
J. McKim Malville **2**, 484
- Time Variation of the Spectrum of Gyro-Synchrotron Emission from the Sun
Tatsuo Takakura, Yutaka Uchida, and Keizo Kai **4**, 45 *Corrigendum* 6, 336
- A Model for Type-IV Emission in the Solar Burst of June 9, 1959 at Decametric Wavelengths
James W. Warwick **5**, 111
- The Slowly Varying Component of the Solar Radio Emission around 1 cm Wavelength
Atsushi Tsuchiya **7**, 268
- Radio Observation of the Solar Eclipse of May 20, 1966
F. G. Drago and G. G. Noci **7**, 276
- The Quiet and Slowly Varying Components of 9.1 cm Radio Emission during the Solar Minimum
A. C. Riddle **7**, 434
- Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. II: Statistical Properties of the Microwave Emission Associated with Sunspots
J. Roosen **8**, 204
- The Coarse Structure of the Solar Atmosphere
M. Simon and H. Zirin **9**, 317
- Trajectories Followed by U-Like Solar Radio Bursts
A. D. Fokker **11**, 92
- Radio Spectrum of Two Active Regions. (Results of the Total Solar Eclipse of Nov. 12, 1966)
Franca Chiuderi Drago **13**, 357
- 80 MHz Observations of a Moving Type IV Solar Burst, March 1, 1969
A. C. Riddle **13**, 448
- Type III Solar Radio Burst Storms Observed at Low Frequencies. III: Streamer Density, Inhomogeneities, and Solar Wind Speed
Joseph Fainberg and R. G. Stone **17**, 392
- Solar Coronal Streamers Observed at 169 MHz with the Nançay East-West Radioheliograph
F. Axisa, Y. Avignon, M.-J. Martres, M. Pick, and P. Simon **19**, 110
- The Heating of the Solar Plasma Due to Microwave Phenomena Correlated with Type II Meter Bursts
E. Fürst **25**, 178

- The Self Absorption of Gyro-Synchrotron Emission in a Magnetic Dipole Field: Microwave Impulsive Burst and Hard X-Ray Burst
Tatsuo Takakura 26, 151
- On the Radio Optical Depth of the Layer Where the Temperature Equals the Brightness Temperature
Franca Chiuderi Drago 27, 132
- The Intensity Decrease of Microwave Bursts
E. Fürst 28, 159
- The Prevalence of Second Harmonic Radiation in Type III Bursts Observed at Kilometric Wavelengths
F. T. Haddock and Hector Alvarez 29, 183
- Solar Wind Density Model from km-Wave Type III Bursts
Hector Alvarez and F. T. Haddock 29, 197
- The Gyro-Synchrotron Radiation from Moving Type IV Sources in the Solar Corona
G. A. Dulk 32, 491
- A Chromospheric Temperature Inversion and Its Implications on Millimeter Brightness Distribution
Donald F. Neidig, Jr. 33, 63
- A Flare-Associated Thermal Burst in the mm-Wave Region
K. Akabane, H. Nakajima, K. Ohki, F. Moriyama, and T. Miyaji 33, 431
- Pulsating Type IV Solar Radio Bursts
B. L. Gotwols 33, 475
- Towards a Theory for Type III Solar Radio Bursts. II: The Radiation Source
Dean F. Smith 34, 393
- Kilometer-Wave Type III Burst: Harmonic Emission Revealed by Direction and Time of Arrival
Hector Alvarez, Fred T. Haddock, and William H. Potter 34, 413 *Erratum* 36, 534
- On the Observation of Scattered Radio Emission from Sources in the Solar Corona
A. C. Riddle 35, 153
- The Slowly Varying Component of Solar Meter Wavelength Radiation: A Non-Thermal Radio Source
A. C. Riddle 36, 375
- A Type II Solar Radio Burst Observed in the Corona and in Interplanetary Space
I. D. Palmer 37, 443
- Solar Limb Brightening at Millimeter Wavelengths
P. M. Kalaghan 39, 315
- Behavior of the Flare-Produced Coronal MHD Wavefront and the Occurrence of Type II Radio Bursts
Yutaka Uchida 39, 431
- Harmonic Ratios of Inverted-U Type III Bursts
R. T. Stewart 39, 451
- A Model Exciter for Type III Solar Radiobursts
C. C. Harvey 40, 193
- Type IIIb Radio Bursts: 80 MHz Source Position and Theoretical Model
Tatsuo Takakura and Shahinaz Yousef 40, 421
- High Resolution Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths
C. E. Alissandrakis and M. R. Kundu 41, 119
- Decameter Storm Radiation, II
T. E. Gergely and M. R. Kundu 41, 163
- Cyclotron Wave Instability in the Corona and the Origin of Solar Radio Emission with Fine Structure. II: Origin of 'Tadpoles'
V. V. Zheleznyakov and E. Ya. Zlotnik 44, 447
- Cyclotron Wave Instability in the Corona and the Origin of Solar Radio Emission with Fine Structure. III: Origin of Zebra-Pattern
V. V. Zheleznyakov and E. Ya. Zlotnik 44, 461
- Scattering in the Radiation Source and the Fundamental-Harmonic Hypothesis
Dean F. Smith 46, 529 *Erratum/Replacement Figure: Fig. 2 - 53, 547*
- Continuous Injection Model for Hard X-Ray Correlated Microwave Bursts
Christian Mätzler 49, 117 *Erratum* 53, 197
- Ha Observations of the August 12, 1975 Type III-RS Bursts
Barry J. LaBonte 50, 201

Source Heights of Metre Wavelength Bursts of Spectral Types I and III

R. T. Stewart **50**, 437

A Model Explaining Type IV Continuum Bursts by Coherent Nonlinear Interaction of Bernstein Waves

L. Mollwo and K. Sauer **51**, 435

The Effects of Scattering on Quiet Sun Emission at Frequencies Less than 200 MHz

J. N. McMullin and H. L. Helfer **53**, 471

Radio and Soft X-Ray Evidence for Dense Non-Potential Magnetic Flux Tubes in the Solar Corona

R. T. Stewart and Joan Vorpahl **55**, 111

Structure and Evolution of Solar Radio Bursts at 26.4 MHz

Henry Sha-Lin Chen and Stanley D. Shawhan **57**, 205

Pulsations of Type IV Solar Radio Emission: The Bounce-Resonance Effects

B. I. Meerson, P. V. Sasorov, and A. V. Stepanov **58**, 165

Meter Wavelength Pulsating Bursts during the May 21, 1972, Solar Noise Storm

K. F. Tapping **59**, 145

Observations and Interpretation of Moving Type IV Solar Radio Bursts

R. D. Robinson **60**, 383

Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. III: Radio Emissions from Plasma Waves

T. Takakura **61**, 143

Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. IV: Simulation for Type III Solar Radio Bursts

T. Takakura **61**, 161

The Radius of the Sun at Centimeter Waves and the Brightness Distribution across the Disk

E. Fürst, W. Hirth, and P. Lantos **63**, 257

The Variation of Solar Brightness at the Extreme Solar Limb at Centimetre Radio Waves

P. Lantos, E. Fürst, and W. Hirth **63**, 271

Microwave Solar Limb Brightening

I. A. Ahmad and M. R. Kundu **69**, 273

On the Possibility of Observations of Current Sheets in Radio Band

V. D. Kuznetsov and S. I. Syrovatskii **69**, 361

Observations and Interpretation of the Slowly Varying Component of Solar Radio Emission at Decameter Wavelengths

Ch. V. Sastry, K. S. Dwarkanath, R. K. Shevgaonkar, and V. Krishan **73**, 363

Differences of Observed Characteristics between Impulsive Bursts and Post-Burst Increases

Keizo Kai, Takeo Kosugi, and Hiroshi Nakajima **75**, 331

Determination and Analysis of Coronal Hole Radio Spectra

Michael D. Papagiannis and Kile B. Baker **79**, 365

Thermal and Nonthermal Phenomena in Solar Flare Loops at 20 cm Wavelength and in X-Rays

E. J. Schmahl, M. R. Kundu, P. B. Landecker, and D. L. McKenzie **83**, 3

Interpretation of Patterns of Drifting Zebra Stripes

L. Mollwo **83**, 305

Dissipative Thermal Models for Impulsive Burst Delays

John C. Brown **86**, 227

Correlation of Hard X-Ray and Type III Bursts in Solar Flares

Vahe Petrosian and John Leach **87**, 165

Observations on the Slowly Varying Components of Solar Radio Emission at Decameter Wavelengths

Ch. V. Sastry, R. K. Shevgaonkar, and M. N. Ramanuja **87**, 391

On the Height of Magnetic Fields above Sunspots Derived from RATAN-600 Observations

Sh. B. Akhmedov, G. B. Gelfreikh, F. Fürstenberg, J. Hildebrandt, and A. Krüger **88**, 103

The Plasma Radiation of Flare Kernels

V. V. Zaitsev and A. V. Stepanov **88**, 297

Microwave, Ultraviolet, and Soft X-Ray Observations of Hale Region 16898

Kiyoto Shibasaki, Franca Chiuderi-Drago, Mauro Melozzi, Cornelis Slottje, and Ester Antonucci **89**, 307

Narrowband dm-Spikes as Indication of Flare Mass Ejection

M. Karlický **92**, 329

Sharp Edges in Solar Microwave Spectra: Neutral Current Sheets or Cyclotron Lines?

E. J. Schmahl, R. K. Shevgaonkar, M. R. Kundu, and D. McConnell **93**, 305

Pulsations of Type IV Radio Bursts as an Indicator of Protonability of Solar Flares

V. V. Zaitsev, A. V. Stepanov, and G. P. Chernov **93**, 363

Irregular Paths of Exciting Electrons and the Intensity-Time Profiles of Type III Bursts

A. D. Fokker **93**, 379

Cyclotron Radio Emission in Plasma with Steep Temperature Gradient

M. Siarkowski **94**, 105

Type II Radio Emission in Coronal Transients

R. S. Steinolfson **94**, 193

Radio Spikes and the Fragmentation of Flare Energy Release

A. O. Benz **96**, 357

On the Origin of Continuum Emission during Decametric Solar Noise Storms

B. N. Levin and V. O. Rapoport **96**, 371

A Positional Comparison between Coronal Mass Ejection Events and Solar Type II Bursts

R. D. Robinson and R. T. Stewart **97**, 145

A Coherent Radiation Mechanism for Type IV Solar Radio Bursts

G. S. Lakhina and B. Buti **99**, 277**Radio Emission, Quiet**

The Distribution of the 9 cm Radio Emission over the Solar Disk during the Sunspot Minimum

J. Roosen and T. Goh **1**, 242

Spectrum Measurements of the Sun near 1 cm Wavelength

David H. Staelin, Norman E. Gaut, Sara E. Law, and Woodruff T. Sullivan III **3**, 26

The Quiet and Slowly Varying Components of 9.1 cm Radio Emission during the Solar Minimum

A. C. Riddle **7**, 434

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. I: The Quiet Component of the 9.1-cm Emission and the 'M-Regions'

J. Roosen **7**, 448

Absolute Calibration Method and Technique of the Daily Patrol of the Solar Flux Density at 1470 MHz

J. Priese **9**, 235

No Evidence of Any Solar Limb Brightening in the Range of 3.5 mm-2 cm

A. Tlamicha **10**, 150

The 3.3-mm Brightness Distribution of the Quiet Sun

F. I. Shimabukuro **12**, 438

Solar Limb Brightening at 3.1 cm

M. Felli and G. Tofani **13**, 194

Brightness Temperatures of the Quiet Sun and New Moon at the 6 mm Wavelength

E. E. Reber **16**, 75

Eclipse Measurements near 1.2 cm Wavelength on September 11, 1969

Mohamed El-Raey **16**, 404

Observations of the 1.4 mm Brightness Distribution of the Sun

F. I. Shimabukuro **18**, 247

Observations of a Partial Solar Eclipse at 9 mm Wavelength

A. M. Flett, Patricia R. Foster, P. Strachan, and D. C. Thornton **20**, 317

Solar Radio Emission at 1.2 mm Wavelength

M. R. Kundu **21**, 130

Observations of the 7 March, 1970 Total Solar Eclipse at Wavelengths of 3.2 and 8.3 mm

John P. Hagen, Paul N. Swanson, Robert W. Haas, Fred L. Wefer, and Raymond W. Vogt **21**, 286

Spectral Radio Observations of a Solar Eclipse

R. M. Straka **21**, 469

Quiet-Sun Center-Limb Observations at 6 and 11 cm during Cycle Maximum

J. C. Ceballos and P. Lantos **22**, 142

A Model for the Chromosphere-Corona Transition Region Based on Radio Observations and on Hydrodynamical Conservation Equations

P. Lantos **22**, 387

On Quasi-Periodic Components with Periods from 30 to 60 min of Amplitude Fluctuations of X-Band Solar Radio Emission

M. M. Kobrin and A. I. Korshunov **25**, 339

- Coronal Abundance of Elements and a Model of the Quiet Sun from Radio Observations
Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci **26**, 343
- A Model of the Quiet Solar Atmosphere
J. H. Piddington **27**, 402
- Further Evidence for a Complex Limb Structure in the Solar Radial Brightness Distribution at mm Wavelengths
Paul N. Swanson, Fred L. Wefer, William J. Decker, and John P. Hagen **28**, 419
- Studies of the Solar Chromosphere from Millimetre and Sub-Millimetre Observations. II: Simple Models of the Lower Chromosphere
J. E. Beckman, C. D. Clark, and J. Ross **31**, 319
- The Radio Radius of the Sun at Millimeter and Centimeter Wavelengths
Paul N. Swanson **32**, 77
- The Brightness Distribution of the Sun at 2.8 cm Wavelength
E. Fürst, O. Hachenberg, and W. Zinz **32**, 445
- A Chromospheric Temperature Inversion and Its Implications on Millimeter Brightness Distribution
Donald F. Neidig, Jr. **33**, 63
- Fine Structure of the Sun at 1.3 cm Wavelength
M. R. Kundu and T. Velusamy **34**, 125
- A Search for 5 min Periodic Structure in Solar 2 cm Emission
Davis D. Sentman and Stanley D. Shawhan **35**, 83
- The Structure of the Middle Corona from Observations at 80 and 160 MHz
G. A. Dulk and K. V. Sheridan **36**, 191
- Brightness Distribution at $\lambda = 3$ and 21 cm near the Solar North Pole
Franca Chiuderi Drago and Patrizio Patriarchi **37**, 403
- Preliminary Results of Sun Observations at 8.6 mm with the Bordeaux Interferometer
R. Bocchia and F. Poumeyrol **38**, 193
- A Method for Investigating the Brightness Distribution near the Solar Limb at Millimeter Wavelengths
P. Joensen, W. H. McCutcheon, and W. L. H. Shuter **39**, 309
- 3.3 Millimeter Limb Brightening Measurements during the 30 June 1973 Total Solar Eclipse
F. I. Shimabukuro, W. J. Wilson, T. T. Mori, and P. L. Smith **40**, 359
- A Coronal Hole Observed at 10.7 GHz with a Large Single Dish
E. Fürst and W. Hirth **42**, 157
- The Radial Brightness Distribution of the Sun at 3.2 mm as Determined from the June 30, 1973 Total Solar Eclipse and a Reanalysis of the March 7, 1970 Total Solar Eclipse
Paul N. Swanson and John P. Hagen **43**, 57
- The Geometry of the Chromosphere-Corona Transition Region Inferred from the Center-to-Limb Variation of the Radio Emission
M. Kanno and R. Tanaka **43**, 63
- Comments on the Quiet Sun Brightness Distribution at 1.2 mm Wavelength
M. R. Kundu and Sou-Yang Liu **44**, 361
- The Quiet Sun Brightness Temperature at 408 MHz
Y. Avignon, P. Lantos, F. Palagi, and P. Patriarchi **45**, 141
- Interferometer Observations of the Solar Brightness Distribution at 8.6 mm Wavelength
Ikuro Suzuki, Kin-Aki Kawabata, and Hideo Ogawa **46**, 205
- The Solar Brightness Temperature at Millimeter Wavelengths
Richard A. Kuseski and Paul N. Swanson **48**, 41
- The Solar Radius at 35 GHz
Fred L. Wefer and Max. P. Bleiweiss **48**, 77
- A Model for Solar Oscillations at cm and mm Wavelengths
W. L. H. Shuter **48**, 85
- Observations of Quasiperiodic Variations in the Solar Flux at 10.7 GHz
L. W. Avery **49**, 141
- Observation of a Coronal Hole at 85 GHz
M. R. Kundu and Sou-Yang Liu **49**, 267
- The Existence of Quasi-Periodic Oscillations with Periods from a Minute up to Some Hours in the Solar Radio Emission at $\lambda = 3$ cm
M. M. Kobrin, V. V. Pakhomov, and N. A. Prokof'eva **50**, 113

- Brightness Distributions of the Sun at 33 and 37 GHz
M. R. Kundu, Sou-Yang Liu, and T. P. McCullough **51**, 321
- Radio and EUV Observations of a Coronal Hole
G. A. Dulk, K. V. Sheridan, S. F. Smerd, and G. L. Withbroe **52**, 349
- The Effects of Scattering on Quiet Sun Emission at Frequencies Less than 200 MHz
J. N. McMullin and H. L. Helfer **53**, 471
- Observations of the Quiet Sun at Meter and Decameter Wavelengths
M. R. Kundu, T. E. Gergely, and W. C. Erickson **53**, 489
- Determination of the Decameter Wavelength Spectrum of the Quiet Sun
W. C. Erickson, T. E. Gergely, M. R. Kundu, and M. J. Mahoney **54**, 57
- Coronal X-Ray Holes and the Quiet Radio Sun at 2800 MHz
Arthur E. Covington **54**, 393
- Ubiquitous Chromospheric Structures Observed in the Quiet Sun at Millimeter and Centimeter Wavelengths
Kenneth R. Lang **58**, 337
- Solar Brightness Distribution at 3 mm Wavelength from Observations of the Eclipse of 1976 October 23
N. R. Labrum, J. W. Archer, and C. J. Smith **59**, 331
- Fine Structure and Time Variation of the Quiet Sun at 1.3 cm
A. Pramesh Rao and M. R. Kundu **59**, 345
- The Sun at 8.5 mm Wavelength - Results of Observations with High Angular Resolution
O. Hachenberg, P. Steffen, and W. Harth **60**, 105
- Solar Brightness Distribution at 8.6 mm from Interferometer Observations
K. Kawabata, M. Fujishita, T. Kato, H. Ogawa, and T. Omodaka **65**, 221
- Synoptic Charts of Solar 9.1 cm and Coronal Hole Data
Fred L. Wefer and Michael D. Papagiannis **67**, 13
- Measurements of the Magnetic Field and the Gradient of Temperature in the Solar Atmosphere above a Flocculus Using Radio Observations
V. M. Bogod and G. B. Gelfreikh **67**, 29
- Central Meridian Passage Dates of Coronal Holes, Inferred from East-West Solar Scans at 692 and 1415 MHz, for the Period January 1968-January 1974
Brian G. Ferguson **69**, 185
- Microwave Solar Limb Brightening
I. A. Ahmad and M. R. Kundu **69**, 273
- Time Variability and Structure of Quiet Sun Sources at 6 cm Wavelength
F. T. Erskine and M. R. Kundu **76**, 221
- Determination and Analysis of Coronal Hole Radio Spectra
Michael D. Papagiannis and Kile B. Baker **79**, 365
- The Quiet Sun Brightness Temperature at 127 MHz
Kazimierz M. Borkowski **81**, 207
- Manifestation of the 160-min Solar Oscillations in Velocity and Brightness (Optical and Radio Observations) (*Invited Review*)
V. A. Kotov, A. B. Severny, T. T. Tsap, I. G. Moiseev, V. A. Efanov, and N. S. Nesterov **82**, 9
- Network to Cell Contrast at Microwaves
F. Chiuderi Drago, M. R. Kundu, and E. J. Schmahl **85**, 237
- Coronal Structures Observed at Metric Wavelengths with the Nançay Radioheliograph
C. E. Alissandrakis, P. Lantos, and E. Nicolaidis **97**, 267
- VLA Observations of a Radio Plage at Centimeter Wavelengths
R. K. Shevgaonkar and M. R. Kundu **98**, 119
- High Spatial Resolution Microwave Observations of the Sun (*Invited Review Paper*)
M. R. Kundu **100**, 491
- Radio Emission, S-Component** (*see also Radio Emission, Active Regions*)
- Observation of the S-Component of the Solar Radio Emission by an Eight Element Grating Interferometer at 17 Gc/s
Atsushi Tsuchiya and Kiyoshi Nagane **1**, 121
- Spectrum of Slowly Varying Component of Solar Radio Emission on Millimeter Wavelengths
Atsushi Tsuchiya and Kozo Takahashi **3**, 346

- Some Characteristics of an S-Component of Solar Radiation Identified on November 1966 Eclipse at 4.28-cm Wavelength
Pierre Kaufmann **4**, 58
- Directivity of Solar Microwave Bright Regions
U. V. Gopala Rao **4**, 428
- The Spectrum of the Slowly Varying Component of Solar Radio Emission at Wavelengths of 3.3 mm - 21 cm
A. Tlamicha **5**, 377
- Height of the Slowly Varying Component of Radio Emission at 9.1 cm during the Quiet Sun Years
A. C. Riddle **6**, 251
- The Slowly Varying Component of the Solar Radio Emission around 1 cm Wavelength
Atsushi Tsuchiya **7**, 268
- Radio Observation of the Solar Eclipse of May 20, 1966
F. G. Drago and G. G. Noci **7**, 276
- The Quiet and Slowly Varying Components of 9.1 cm Radio Emission during the Solar Minimum
A. C. Riddle **7**, 434
- Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. II: Statistical Properties of the Microwave Emission Associated with Sunspots
J. Roosen **8**, 204
- Observation of Solar Radio Emission by the 22-m Radio Telescope at the Crimean Astrophysical Observatory at 2.25 mm and 8.15 mm Wavelengths
V. A. Efanov, A. G. Kislyakov, I. G. Moiseev, and A. I. Naumov **8**, 331
- Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. III: Sunspots and Geomagnetic Activity
J. Roosen **8**, 450
- Changes in Coronal Condensations Emission after Solar Bursts at Microwaves
Pierre Kaufmann, E. Scalise, Jr., and P. Marques dos Santos **15**, 195
- Spectrum of Average Flux of the S-Component of Solar Radio Emission
M. K. Das Gupta and S. K. Sarkar **18**, 276
- Solar Coronal Streamers Observed at 169 MHz with the Nançay East-West Radioheliograph
F. Axisa, Y. Avignon, M.-J. Martres, M. Pick, and P. Simon **19**, 110
- Results from OSO-IV: The Long Term Behavior of X-Ray Emitting Regions
A. Krieger, F. Paolini, G. S. Vaiana, and D. Webb **22**, 150
- Slowly Varying Component Spectrum of the Solar Radio Emission at Millimetre Wavelengths
V. A. Efanov, A. G. Kislyakov, and I. G. Moiseev **24**, 142
- Differential Rotation in the Solar Atmosphere Inferred from Optical, Radio, and Interplanetary Data
Mohamed El-Raey and Philip H. Scherrer **26**, 15
- Some Studies on the Solar Microwave Bursts in Relation to the Slowly Varying Component
M. K. Das Gupta and S. K. Sarkar **26**, 378
- On the Long-Term Behaviour of the Circular Polarization from Coronal Condensation Radio Emission at 4.3 cm Wavelength
M. H. Paes de Barros and P. Kaufmann **27**, 203
- On the S- and B-Components of Solar Radio and X-Emission and Their Relationships to Energetic Solar Events
A. Krüger **27**, 217
- Correlation and Spectral Analysis of Daily Solar Radio Flux
Mohamed El-Raey and Phillip Scherrer **30**, 149
- On the Source of the Slowly Varying Component at Centimeter and Millimeter Wavelengths
Fred I. Shimabukuro, Gary A. Chapman, Earle B. Mayfield, and Sidney Edelson **30**, 163
- A Study of Solar Radio Emission in the Light of Sengupta's Model of Coronal Active Regions
P. R. Sengupta and A. K. Chakraborty **30**, 395
- Latitude and Solar-Cycle Dependence of the Height of 9.1 cm Radio Emission
W. Graf and R. N. Bracewell **33**, 75
- Coronal Prominences on the Disk Observed on 29 October 1972
Ichiro Kawaguchi and Reizaburo Kitai **33**, 145
- Coupling of Microwaves at a Selected Solar Active Centre
Eugenio Scalise, Jr. and Pierre Kaufmann **34**, 189

The Relationship between the Slowly Varying Component of Solar Radio Emission and Large Scale Photospheric Magnetic Field Patterns

P. H. Scherrer and M. El-Raey 35, 361

High Resolution Interferometry of the Sun at 3.7 cm Wavelength

Kenneth R. Lang 36, 351

The Slowly Varying Component of Solar Meter Wavelength Radiation: A Non-Thermal Radio Source

A. C. Riddle 36, 375

Preliminary Results of Sun Observations at 8.6 mm with the Bordeaux Interferometer

R. Bocchia and F. Poumeyrol 38, 193

Discontinuity in the Microwave Slowly Varying Component Observed at 20:02 UT, June 16, 1972

Arthur E. Covington 39, 153

Observations of the Quiet Sun at Meter and Decameter Wavelengths

M. R. Kundu, T. E. Gergely, and W. C. Erickson 53, 489

Some Results of a Statistical Analysis of the S-Component of Solar Radio Emission

H. Aurass, J. Kurths, and W. Voigt 60, 361

Fine Structure of the S-Component Spectrum of the Solar Radio Emission in the Frequency Range 5.0-7.0 GHz

N. S. Kaverin, M. M. Kobrin, A. I. Korshunov, and V. V. Shushunov 63, 379

On the Type of Spectra of S-Component Sources and Their Correlation with Flare Occurrence

P. Steffen 67, 89

Observations and Interpretation of the Slowly Varying Component of Solar Radio Emission at Decameter Wavelengths

Ch. V. Sastry, K. S. Dwarkanath, R. K. Shevgaonkar, and V. Krishan 73, 363

The Measurement of Magnetic Fields in the Solar Atmosphere above Sunspots Using Gyroresonance Emission

Sh. B. Akhmedov, G. B. Gelfreikh, V. M. Bodog, and A. N. Korzhavin 79, 41

A Beam Ratio Technique for Microwave Observation of S-Component Sources

K. F. Tapping 83, 179

Observations on the Slowly Varying Components of Solar Radio Emission at Decameter Wavelengths

Ch. V. Sastry, R. K. Shevgaonkar, and M. N. Ramanuja 87, 391

On the Height of Magnetic Fields above Sunspots Derived from RATAN-600 Observations

Sh. B. Akhmedov, G. B. Gelfreikh, F. Fürstenberg, J. Hildebrandt, and A. Krüger 88, 103

Radio Emission, Stellar (*see Stellar Physics*)

Radio Emission, Theory

Theory of Solar Bursts

Tatsuo Takakura 1, 304 *Corrigenda* 3, 624 and 6, 336

Determination of the Coronal Magnetic Field and the Radio-Emitting Electron Energy from a Type IV Solar

Radio Burst

Reuven Ramaty and Richard E. Lingenfelter 5, 531

Height of the Slowly Varying Component of Radio Emission at 9.1 cm during the Quiet Sun Years

A. C. Riddle 6, 251

Plasma Turbulence in Solar Flares as an Explanation of Some Observed Phenomena

M. Friedman and S. M. Hamberger 8, 104

Microwave and Hard X-Ray Bursts from Solar Flares

Stephen S. Holt and Reuven Ramaty 8, 119

On a Possible Proton Origin for Type V Continuum Radiation from a Solar Flare

M. Friedman and S. M. Hamberger 8, 398

A Magnetohydrodynamic Approach for Interpreting Solar Polarization Bursts at 7 GHz

O. T. Matsuura 9, 173

Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data

J. David Bohlin and M. Simon 9, 183

Gyro-Synchrotron Emission in a Magnetic Dipole Field for the Application to the Center-to-Limb Variation of

Microwave Impulsive Bursts

Tatsuo Takakura and Eugenio Scalise, Jr. 11, 434

Interpretation of Type I- and IV mB-Bursts and Noise Storms by Mode Coupling in the Warm Plasma

L. Mollwo 12, 125

Theory of Solar Radio Pulsation

Y. T. Chiu **13**, 420

On the Relative Intensity of Second Branches of U-Like Solar Radio Bursts

D. F. Smith **13**, 444

On the Determination of the Velocity of the Exciters of Type II Solar Radiobursts

H. G. van Bueren and M. Kuperus **14**, 208

Towards a Theory for Type III Solar Radio Bursts. I: Nature of the Exciting Agency

D. F. Smith **15**, 202

The Impulsiveness of Microwave Bursts and Its Association with Sunspot Types

O. T. Matsuura and M. F. F. Nave **16**, 417

Scattering of Radiowaves from Cosmic Sources in the Solar Corona

L. L. Baselyan and V. G. Sinitin **17**, 129

Coherent Synchrotron Deceleration and the Emission of Type II and III Solar Radio Bursts

A. F. Kuckes and R. N. Sudan **17**, 194

Three Years Statistics of Simple 3 Solar Bursts

Oscar T. Matsuura and P. Marques dos Santos **17**, 402

Identification of Two Distinctive Types of Centimeter Radio Bursts with Flare Location

John P. Hagen and Donald F. Neidig, Jr. **18**, 305 *Corrigendum* **20**, 520

A Note on the Emission Frequency of the Type III Solar Bursts

Michael D. Papagiannis **18**, 311

Wave Propagation in the Warm Plasma and the Spectrum of the Solar Radio Bursts

L. Mollwo **19**, 128

Faraday Rotation Dispersion and the Distribution of Polarization Characteristics of Type III Bursts

A. D. Fokker **19**, 472

Gyro-Resonance Absorption of Plasma Waves in the Corona and the Fine Structure of Solar Radio Bursts

V. V. Zheleznyakov and E. Ya. Zlotnik **20**, 85

A Pulsating Regime of Stream Instability and the Origin of 'Rain' Type Radio Bursts

V. V. Zaitsev **20**, 95

A U-Type Solar Radio Burst Originating in the Outer Corona

R. G. Stone and Joseph Fainberg **20**, 106

Radio Observations of Filaments during the Eclipses of September 11, 1969 and March 7, 1970

M. Simon and Bengt-Arne Wickström **20**, 122

A Moving Type IV Radio Burst and Its Relation to the Coronal Magnetic Field

George A. Dulk and Martin D. Altschuler **20**, 438

A Comparison of Type III Solar Radio Burst Theories Using Satellite Radio Observations and Particle Measurements

Larry G. Evans, Joseph Fainberg, and R. G. Stone **21**, 198

On the Temperature and Emission Measure of Thermal Radio Bursts

F. I. Shimabukuro **23**, 169

Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts

Dean F. Smith **23**, 191

Slowly Varying Component Spectrum of the Solar Radio Emission at Millimetre Wavelengths

V. A. Efanov, A. G. Kislyakov, and I. G. Moiseev **24**, 142

A Model for Drift Pair and Hook Burst Emission from the Solar Corona

W. K. Yip **24**, 197

Frequency Separation in Structure of Solar Continuum Radio Bursts

Hans Rosenberg and Guy Tarnstrom **24**, 210

Measurement of the Electron Temperature of Small 3-cm Radio Bursts

Peter Foukal **24**, 411

A Dynamic Theory of Type III Solar Radio Bursts

V. V. Zaitsev, N. A. Mityakov, and V. O. Rapoport **24**, 444

A Possibly Direct Measurement of Coronal Magnetic Field Strengths

Hans Rosenberg **25**, 188

Particle Motions in Coronal Streamers and Type III Radio Bursts

Dean F. Smith and G. W. Pneuman **25**, 461

Note on Solar Plasma Irregularities and Plasma Instabilities

S. K. Alurkar **26**, 225

- Evidence for Electron Excitation of Type III Radio Burst Emission
H. Alvarez, F. Haddock, and R. P. Lin **26**, 468
- Meter-Wavelength Observations of the Solar Radio Burst Storm of August 17-22, 1968
R. T. Stewart and N. R. Labrum **27**, 192
- On the S- and B-Components of Solar Radio and X-Emission and Their Relationships to Energetic Solar Events
A. Krüger **27**, 217
- Observations on the Time and Frequency Structure of Solar Decameter Radio Bursts
Ch. V. Sastry **28**, 197
- Non-Existence of Linear Polarization in Type III Solar Bursts at 80 MHz
R. J.-M. Grognaud and D. J. McLean **29**, 149
- On the Source of the Slowly Varying Component at Centimeter and Millimeter Wavelengths
Fred I. Shimabukuro, Gary A. Chapman, Earle B. Mayfield, and Sidney Edelson **30**, 163
- Decay Time of Type III Solar Bursts Observed at Kilometric Wavelengths
Hector Alvarez and F. T. Haddock **30**, 175
- Interpretation of Distinct Type IVmA- and IV μ -Bursts on the Basis of Micro-Instabilities and of Resonant Nonlinear Interaction of Waves
L. Mollwo **30**, 497
- A Theory of the Origin of the Split Pair Burst Emission from the Solar Corona
W. K. Yip **30**, 513
- Quasi-Periodic Structure in Solar Microwave Bursts
T. J. Janssens, K. P. White, III, and R. M. Broussard **31**, 207
- Interferometer Observations of a Radio Burst at 8.6 mm Associated with a Polarized Hard X-Ray Event
K. Kawabata, Y. Sofue, H. Ogawa, and T. Omodaka **31**, 469
- Characteristics of Type III Exciters Derived from Low Frequency Radio Observations
Larry G. Evans, J. Fainberg, and R. G. Stone **31**, 501
- Spatial Dispersion of Faraday Rotation and Its Connection with Mode Coupling
Christian Mätzler **32**, 241
- Towards a Better Dynamic Theory for Type III Radio Bursts
Dean F. Smith **33**, 213
- Nonlinear Wave Coupling in Type IV Solar Radio Bursts
Claudio Chiuderi, Riccardo Giachetti, and Hans Rosenberg **33**, 225
- On the Determination of Coronal Temperature from the Decay of Type III Radio Bursts
A. C. Riddle **34**, 181
- Comments on 'Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts' by Dean F. Smith
D. B. Melrose **34**, 421
- On a Suggested Explanation for Fine Structures Observed in Some Wide-Band Bursts
W. N.-C. Sy **34**, 427
- A Search for 5 min Periodic Structure in Solar 2 cm Emission
Davis D. Sentman and Stanley D. Shawhan **35**, 83
- A Relationship between the Brightness Temperatures for Type III Bursts
D. B. Melrose **35**, 441
- A Coherent Radiation Mechanism for Type IV dm Radio Bursts
Jan Kuijpers **36**, 157
- High Resolution Interferometry of the Sun at 3.7 cm Wavelength
Kenneth R. Lang **36**, 351
- On the Third Harmonic in Solar Radio Bursts
V. V. Zheleznyakov and E. Ya. Zlotnik **36**, 443
- The Third Harmonic of Type III Solar Radio Bursts
Tatsuo Takakura and Shahinaz Yousef **36**, 451
- Pairs of Non Fundamental-Harmonic Type III Bursts
C. Caroubalos, J. Heyvaerts, M. Pick, and G. Trotter **37**, 205
- Solar Radio Pulsations at Decametric Wavelengths
A. Achong **37**, 477
- On the Propagation of the Electron Streams Generating Type III Bursts
D. B. Melrose **38**, 205

- Type III Solar Radio Bursts Observed at 169 MHz: Height and Relative Positions in Pairs
C. Mercier and H. Rosenberg 39, 193
- Time Profile of Type III Bursts
T. Takakura, Y. Naito, and K. Ohki 41, 153
- The Necessity of Fundamental Emission in Type III Bursts
Dean F. Smith and William D. Davis 41, 439
- Type III Solar Radio Bursts and the Fundamental-Harmonic Hypothesis
Hans Rosenberg 42, 247
- On the Nature of Some Active Regions in the Microwave Range
M. Felli, G. Tofani, E. Fürst, and W. Hirth 42, 377
- Small-Scale Inhomogeneities in the Solar Corona: Evidence from Meter-A Radio Bursts
D. B. Melrose 43, 79
- Plasma Emission Due to Isotropic Fast Electrons, and Types I, II and V Solar Radio Bursts
D. B. Melrose 43, 211
- Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. I: Bernstein Modes and Plasma Waves in a Hybrid Band
V. V. Zheleznyakov and E. Ya. Zlotnik 43, 431
- The Structure and Intensity Evolution of a Solar Burst at 2.8 cm and the Relation with the Soft X-Ray Emitting Region
Marcello Felli, Roberto Pallavicini, and Gianni Tofani 44, 135
- A Radio Burst with Peculiar Polarization Behaviour in July 1974
P. Steffen 44, 149
- Generation of Intermediate Drift Bursts in Solar Type IV Radio Continua through Coupling of Whistlers and Langmuir Waves
Jan Kuijpers 44, 173
- Towards a Theory for Type III Solar Radio Bursts. III: The Radiation Source Including Scattering
Dean F. Smith and Anthony C. Riddle 44, 471
- Fast Solar Electrons, Interplanetary Plasma and km-Wave Type-III Radio Bursts Observed from the IMP-6 Spacecraft
Hector Alvarez, Robert P. Lin, and Samuel J. Bame 44, 485
- Evidence of Large Scale Diverging Paths in the Solar Corona for Type III Bursts Exciters
C. Mercier 45, 169
- Solar Type III Burst Profiles at Decametre-Wave Frequencies. I: Observations
C. H. Barrow and A. Achong 45, 459
- Solar Type III Burst Profiles at Decametre-Wave Frequencies. II: Exciter
A. Achong and C. H. Barrow 45, 467
- The Solar Radio Event of January 14, 1971. Position and Polarization Behaviour in the Middle Corona
A. Abrami 46, 229
- Solar Micro-Bursts at 22.2 GHz and Their Relationship to Events Observed at Lower Frequencies
J. R. Blakey 46, 241
- Fiber Bursts Concurrent with a Weak Noise Storm
J. Kuijpers and C. Slottje 46, 247
- Type IV dm Bursts: Onset and Sudden Reductions
Arnold O. Benz and Jan Kuijpers 46, 275 *Erratum/Replacement Figures: Figs. 6, 7 - 53, 547*
- Proceedings of the Workshop on Mechanisms for Solar Type III Radio Bursts, held at Space Sciences Laboratory, University of California, Berkeley, California, 8 and 9 May 1975, *Preface*
R. P. Lin (ed.) 46, 433
- Evidence of Large Scale Diverging Paths in the Solar Corona for Type III Bursts Exciters (*Abstracts Only*)
C. Mercier 46, 499
- Empirical Study of the Conversion of the Plasma Waves into Transverse Waves
Y. Leblanc, A. Lecacheux, and A. Boischoit 46, 501
- Effects of an Ambient Magnetic Field on the Properties of Langmuir Waves (*Extended Summary*)
D. B. Melrose 46, 511
- On the Theory of the Type III Burst Exciter
Robert A. Smith, Melvyn L. Goldstein, and Konstantinos Papadopoulos 46, 515

- Type III Solar Radio Bursts and the Fundamental-Harmonic Hypothesis (*Title Only, paper published in Solar Phys.* 42, 247)
Hans Rosenberg 46, 541
- Comments on the Mechanism of Type III Bursts
Paul J. Kellogg 46, 543
- A Simple Derivation of Microwave Solar Brightness Temperatures and Polarizations from Thermal Regions
Michael D. Papagiannis and John A. Kogut 48, 49
- A Model for Solar Oscillations at cm and mm Wavelengths
W. L. H. Shuter 48, 85
- Comparison of the 9.1 cm and Soft X-Ray Emission from an Active Region
M. Gerassimenko, J. T. Nolte, and R. D. Petrasso 48, 121
- Observations of Quasiperiodic Variations in the Solar Flux at 10.7 GHz
L. W. Avery 49, 141
- Microscopic Spectral Features in Solar Decametric Bursts and Coronal Irregularities
H. S. Sawant, R. V. Bhonsle, and S. K. Alurkar 50, 481
- Are 'Negative Bursts' Due to Absorption?
C. Sawyer 51, 203
- Collisionless Deceleration of Fast Electron Streams in the Solar Coronal Plasma
L. L. Bazelyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko 52, 141
- A Two-Component Model of Impulsive Microwave Burst Emission Consistent with Soft and Hard X-Rays
A. Böhme, F. Fürstenberg, J. Hildebrandt, O. Saal, A. Krüger, P. Hoyng, and G. A. Stevens 53, 139
- Microwave Burst Spectra and Solar Flare Magnetic Fields
Donald F. Neidig, Jr. 54, 165
- A Study of Filament Transition Sheath from Radio Observations
A. Pramesh Rao and M. R. Kundu 55, 161
- Nonrelativistic Electron Stream Propagation in the Solar Atmosphere and Type III Radio Bursts
G. R. Magelssen and D. F. Smith 55, 211
- A Study of Type V Solar Radio Bursts. II. A Theoretical Model
R. D. Robinson 56, 405
- Relation between Circular Polarization of Moving Type IV Bursts and Polarity of Photospheric Magnetic Fields
Keizo Kai 56, 417
- Relationship between Type III-V Radio and Hard X-Ray Bursts
R. T. Stewart 58, 121
- Low Frequency Spectra of Type III Solar Radio Bursts
Richard R. Weber 59, 377
- Plasma Radiation Diagnostics of the Primary Energy Release Region in Solar Flares
Dean F. Smith and Daniel S. Spicer 62, 359
- Low Frequency Turbulence in the Solar Corona and Fundamental Radiation of Type III Solar Radio Burst
T. Takakura 62, 375
- Numerical Simulation of Type III Solar Radio Bursts Caused by High-Density Electron Beam
T. Takakura 62, 383
- Wave Ducting of Solar Metre-Wave Radio Emission as an Explanation of Fundamental/Harmonic Source Coincidence and Other Anomalies
R. A. Duncan 63, 389
- A Statistical Investigation of Microwave Burst Spectra for the Determination of Source Inhomogeneities
W. Schoechlin and A. Magun 64, 349
- About the Observed Brightness Distribution of Solar Radio Bursts on Decameter Wavelengths and a Possible Effect from the Ionosphere
J. L. Steinberg, M. Poquérusse, and S. Hoang 64, 359
- Common Origin for UV and Radio Fluctuations?
Giannina Poletto 66, 323
- Observations and Interpretation of Solar Decameter Type IIIb Radio Bursts
V. Krishan, K. R. Subramanian, and Ch. V. Sastry 66, 347
- Five Minute Microwave Solar Oscillations
F. M. Strauss, P. Kaufmann, and R. Opher 67, 83

A Plasma-Emission Mechanism for Type I Solar Radio Emission

D. B. Melrose **67**, 357

On the Correlation between Exciter Duration and Decay Constant of Solar Decameter Type III Radio Bursts

K. R. Subramanian, V. Krishan, and Ch. V. Sastry **70**, 375

Type III Bursts and Coronal Temperature

M. Karlický **71**, 381

On a Possible Mechanism of Zebra-Pattern Generation in Solar Radio Emission

V. V. Fomichev and S. M. Fainshtein **71**, 385

Langmuir-Wave Conversion as the Explanation of Moving Type IV Solar Meter-Wave Radio Outbursts

R. A. Duncan **73**, 191

Solar Radio Bursts of Spectral Type II, Coronal Shocks, and Optical Coronal Transients

Alan Maxwell and Murray Dryer **73**, 313

Fundamental Wave of Type III Solar Radio Bursts and Whistler Waves

T. Takakura **75**, 277

A Note on the Mechanism of Broad Band Absorptions and Emissions in the Type IV Decimeter Continuum

A. D. Fokker **77**, 255

Numerical Simulation of Type III Solar Radio Bursts on Meter- and Hectometric-Waves

T. Takakura **78**, 141

Radio Echo and Sporadic Radiation Scattering in the Solar Corona

E. P. Abranin, L. L. Bazelyan, V. V. Zaitsev, V. O. Rapoport, and Ya. G. Tsybko **78**, 179

Fundamental Emission for Type III Bursts in the Interplanetary Medium: The Role of Ion-Sound Turbulence

D. B. Melrose **79**, 173

Is There a Common Explanation for Scattering of Type III Radio Bursts and Solar Radar?

Donat G. Wentzel **79**, 375

Time Delays in Solar Bursts Measured in the mm-cm Range of Wavelengths

P. Kaufmann, J. E. R. Costa, and F. M. Strauss **81**, 159

Limitation Imposed by Strong Langmuir Turbulence on the Self-Consistency of the Quasi-Linear Dynamics

R. J.-M. Grognard **83**, 207

Radio Emission by Parallel Acceleration Mechanism

V. Krishan and C. Sivaram **84**, 125

Microwave and Hard X-Ray Observations of a Solar Flare with a Time Resolution Better than 100 ms

P. Kaufmann, F. M. Strauss, J. E. R. Costa, B. R. Dennis, A. Kiplinger, K. J. Frost, and L. E. Orwig **84**, 311

Secondary Peaks in Solar Microwave Outbursts

E. W. Cliver **84**, 347

Evidence for Arc Sec Radio Burst Sources in the Upper Corona

David McConnell **84**, 361

Spatially Coherent Oscillations in Microwave Bursts

Arie Kattenberg and Max Kuperus **85**, 185

Narrow-Band Decimeter Bursts and X-Ray Emissions - Possible Evidence of Negative Absorption or Maser Effect

Shinzo Enome **86**, 421

A Torsional Wave Model for Solar Radio Pulsations

K. F. Tapping **87**, 177

Frequency Splitting in Stria Bursts: Possible Roles of Low-Frequency Waves

D. B. Melrose **87**, 359

Possible Detection of Thermal Cyclotron Lines from Small Sources within Solar Active Regions

Robert F. Willson **89**, 103

Long Time Delay between the Peaks of Intense Solar Hard X-Ray and Microwave Bursts

T. Takakura, S. S. Degaonkar, K. Ohki, T. Kosugi, and S. Enome **89**, 379

The Source Model of Low-Energy Electrons Responsible for Type I and Type III Radio Noise Storms

V. M. Gubchenko and V. V. Zaitsev **89**, 391

Progress and Problems in the Theory of Type III Solar Radio Emission

Martin V. Goldman **89**, 403

Polarization of Fundamental Type III Radio Bursts

Donat G. Wentzel **90**, 139

Multiple Radio Echoes in the Solar Corona

E. P. Abranin, L. L. Bazelyan, V. V. Zaitsev, V. O. Rapoport, and Ya. G. Tsybko 91, 383

Persistent 1.5 s Oscillations Superimposed to a Solar Burst Observed at Two mm-Wavelengths

A. M. Zodi, P. Kaufmann, and H. Zirin 92, 283

A Quasi-One-Dimensional Velocity Regime of Super-Thermal Electron Stream Propagation through the Solar Corona

B. N. Levin 92, 317

Pulsations of Microwave Emission as a Consequence of Oscillatory Transients in the Solar Atmosphere

V. G. Zandanov and A. M. Uralov 93, 301

Synchrotron or Plasma Emission in Solar Microwave Flares?

A. O. Benz 94, 161

Partial Reconstruction of the Initial Conditions for Streams of Energetic Electrons Associated with a Solar Type III Burst

R. J.-M. Grogard 94, 165

Great Microwave Bursts and Hard X-Rays from Solar Flares

Herbert J. Wiehl, David A. Batchelor, Carol Jo Crannell, Brian R. Dennis, Phillip N. Price, and Andreas Magun 96, 339

Radio Scintillation**A Magnetohydrodynamic Approach for Interpreting Solar Polarization Bursts at 7 GHz**

O. T. Matsuura 9, 173

Note on Solar Plasma Irregularities and Plasma Instabilities

S. K. Alurkar 26, 225

Red Shift, Non-Doppler**On the Physical Meaning of the Freundlich-Forbes Empirical Constant**A. G. Gasanalizade 1, 481 *Erratum and Addendum 11, 513***Compton Effect Interpretation of Solar Red Shift**

J. W. Kierein and B. M. Sharp 3, 450

Absolute Wavelengths of Fraunhofer Lines: Convective Motions in the Solar Photosphere and the Gravitational Red Shift

D. L. Lambert and E. A. Mallia 3, 499

The Interpretation of the Absorption-Line Red-Shifts in the Solar Spectrum

Jay M. Pasachoff and Joseph I. Silk 4, 474

Atomic-Beam Study of the Solar 7699 Å Potassium Line and the Solar Gravitational Red-Shift

J. L. Snider 12, 352

Interferometric Measurements of 142 Solar Wavelengths

James E. O'Brien, S. J. 19, 314

On the Freundlich Red Shift

A. G. Gasanalizade 20, 507

Comments on Two Recent Measurements of the Solar Gravitational Red-Shift

J. L. Snider 36, 233

Solar Gravitational Redshift

James C. LoPresto, Robert D. Chapman, and Elizabeth A. Sturgis 66, 245

Reports from Solar Institutes**Solar Physics at Kodaikanal**

M. K. V. Bappu 1, 151

Sacramento Peak Observatory

John W. Evans 1, 157

Fraunhofer Institut, Friburg

K. O. Kiepenheuer 1, 162

Toyokawa Observatory

H. Tanaka 1, 295

The Crimean Astrophysical Observatory

A. Severny and N. Stepanyan 1, 484

The Solar Work at the Göttingen Observatory

G. Brückner, E. Schröter, and H. H. Voigt 1, 487

- The Arcetri Astrophysical Observatory
G. Righini 1, 494
- Solar Physics at the 'Observatoire de Paris-Meudon'
R. Michard 1, 498
- The Solar Service of the National Observatory of Athens
Constantin J. Macris 2, 125
- Debrecen Heliophysical Observatory
L. Dezsö 2, 129
- Abastumani Astrophysical Observatory of the Academy of Sciences of the Georgian SSR
Ts. S. Khetsuriani 2, 237
- Tokyo Astronomical Observatory
S. Nagasawa 2, 240
- The Solar Observatory of the University of Hawaii
J. T. Jefferies 2, 369
- Solar Physics at the Astronomical Observatory of Rome
M. Cimino 2, 375
- The Radio Astronomy Group of the Astronomical Observatory of the N. Copernicus University, Toruń, Poland
S. Gorgolewski 3, 357
- Solar Physics at Mackenzie University, São Paulo, Brazil
Pierre Kaufmann 3, 360
- Kandilli Observatory, Istanbul
M. Dizer 3, 491
- Solar Physics at the Main Astronomical Observatory of the Ukrainian Academy of Sciences
E. A. Gurtovenko 4, 108
- Oslo Solar Observatory
Eberhart Jensen 4, 114
- Solar Research at the Pulkovo Astronomical Observatory
V. A. Krat 4, 118
- Skalná Pleso Astronomical Institute
J. Sýkora 4, 122
- The Cambridge University Solar Research Station in Malta
H. von Klüber 4, 479
- Solar Research at the Heinrich-Hertz-Institut für Solar-Terrestrische Physik
H. Daene and F. W. Jäger 4, 489
- Experiences from 16 Years of Solar Work in Anacapri
Yngve Öhman 4, 493
- McMath-Hulbert Observatory of the University of Michigan
Orren C. Mohler and Helen W. Dodson 5, 417
- The Swiss Federal Observatory, Zürich
M. Waldmeier 5, 423
- Lockheed Solar Observatory
Loren W. Acton 6, 485
- Solar Physics at the Goddard Space Flight Center
John C. Brandt 6, 490
- The Solar Program of the Kitt Peak National Observatory
A. Keith Pierce 6, 498
- Weissenau Solar Radio Astronomy Observatory
H. Urbarz 7, 147
- Solar Research at the Mount Wilson and Palomar Observatories
Robert Howard 7, 153
- The North Liberty Radio Observatory of the University of Iowa
J. A. Van Allen, C. D. Wende, and S. R. Mosier 7, 159
- The High Altitude Observatory of the National Center for Atmospheric Research, Boulder, Colorado
Gordon Newkirk, Jr. and Halka Chronic 7, 331
- Solar-Terrestrial Research and Services in the ESSA Research Laboratories, Environmental Science Services Administration, Boulder, Colo., U.S.A.
R. H. Olson 8, 240

- Algonquin Radio Observatory, Lake Traverse, Ont., Canada
 Arthur E. Covington 9, 241
- Solar Research at the Catania Astrophysical Observatory
 G. Godoli 9, 246
- Bucharest Observatory Solar Station
 C. Popovici 9, 494
- Solar Work at Manila Observatory
 J. J. Hennessey 9, 496
- Solar Radio Astronomy Research at the Trieste Astronomical Observatory
 A. Abrami 9, 502
- Wroclaw University Astronomical Observatory
 Jan Mergentaler 10, 229
- The Solar Department at IZMIRAN
 E. I. Mogilevsky 10, 231
- Solar Physics at the NASA Manned Spacecraft Center
 Donald E. Robbins and John H. Reid 10, 502
- Solar Physics at the Tashkent Astronomical Observatory
 V. Scheglov and Yu. Slonim 11, 157
- Stanford Radio Astronomy Institute
 R. N. Bracewell 11, 161
- Solar Research at the Ondřejov Observatory
 Zdeněk Švestka 12, 332
- Slough Solar Radio Observatory
 D. L. Croom, R. J. Powell, and L. J. Harris 14, 238
- Solar Physics at the Observatorio Nacional de Física Cósmica, San Miguel, Argentina
 M. A. Greco, H. Grossi Gallegos, and J. R. Seibold 14, 503
- The Solar Observatory at Uecht (Berne)
 K. Flückiger, A. Magun, and E. Schanda 15, 253
- Harvard Radio Astronomy Station
 Alan Maxwell 16, 224
- Solar Physics at the Utrecht Astronomical Institute
 A. D. Fokker, J. Houtgast, and C. de Jager 16, 227
- The Shemakha Astrophysical Observatory of the Academy of Sciences of the Azerbaijan S.S.R.
 R. E. Guseinov 16, 490
- The High Altitude Solar Station Peak Alma-Ata
 Saken Obashev 16, 493
- Solar Activity Observations at Uccle and Humain Stations
 A. Koeckelenbergh 16, 497
- The New Itapetinga Radio Observatory, from Mackenzie University, São Paulo, Brasil
 Pierre Kaufmann 18, 336
- Solar Physics at the Kiev University Observatory
 N. A. Yakovkin 27, 493
- The Culgoora Solar Radio Observatory
 N. R. Labrum 27, 496
- Radioastronomy on Decimeter Wavelengths at Meudon and Nançay Observatories
 A. Boischoit 36, 517
- La Posta Astrogeophysical Observatory
 Max P. Bleiweiss and Fred L. Wefer 43, 253
- Solar Observations at the Göttingen University Observatory
 E. Wiehr, A. Wittmann, and H. Wöhl 68, 207
- The High Altitude Observatory of the National Center for Atmospheric Research Boulder, Colorado
 R. M. MacQueen 68, 411
- Solar Investigations at Abastumani Astrophysical Observatory of the Academy of Sciences of Georgia, U.S.S.R.
 Ts. S. Khetsuriani 69, 405
- Sacramento Peak Observatory
 Lawrence E. Cram 69, 411

Solar Research at the Pulkovo Astronomical Observatory

V. A. Krat **73**, 405

The Use of the Large mm-Wave Antenna at Itapetinga in High Sensitivity Solar Research

P. Kaufmann, F. M. Strauss, R. E. Schaal, and C. Laporte **78**, 389

Debrecen Heliophysics Observatory

L. Dezsö **79**, 195

Solar Physics at the Main Astronomical Observatory of the Ukrainian Academy of Sciences

E. A. Gurtovenko **80**, 317

The Mount Wilson Magnetograph

R. Howard, J. E. Boyden, D. H. Bruning, M. K. Clark, H. W. Crist, and B. J. LaBonte **87**, 195

Announcement: Establishment of the LEST Foundation

Jan Olof Stenflo **87**, 419

Eight Decades of Solar Research at Mount Wilson (*Invited Review Paper*)

Robert Howard **100**, 171

Rotation

Solar Rotation, 1966-68

W. C. Livingston **7**, 144

General Magnetic Field and Rotation of the Outer Layers of the Sun

F. Unz and K. Walter **8**, 310

Corotating Structure in the Solar Wind

R. L. Carovillano and G. L. Siscoe **8**, 401

The Rotation of the Solar Atmosphere

E. J. Weber **9**, 150

On Large-Scale Solar Convection

Robert P. Davies-Jones and Peter A. Gilman **12**, 3

Note on the Dependence of the Duration of the Zonal Spot Activity on the Solar Rotation

W. Gleissberg **14**, 166

Photospheric Magnetic Field Rotation: Rigid and Differential

John M. Wilcox, Kenneth H. Schatten, Andrew S. Tanenbaum, and Robert Howard **14**, 255

The Large-Scale Velocity Fields of the Solar Atmosphere

Robert Howard **16**, 21

The Longitudinal Distribution of the Green Coronal Activity

J. Sýkora **18**, 72

Planetary Waves on the Sun?

S. T. Suess **18**, 172

Solar Rotation: Direct Evidence from Prominences for a Westward Wind

W. Livingston **19**, 379

Large-Scale Motions in the Sun

J. H. Piddington **21**, 4

On the Dependence of the Linear Velocity of Solar Rotation on Latitude and Optical Depth

Y. A. Solonsky **23**, 3

Polar Magnetic Fields of the Sun: 1960-1971

Robert Howard **25**, 5

Solar Rotation: The Photospheric Height Gradient

W. Livingston and R. Milkey **25**, 267

On the Characteristics of the Basic Framework of Solar Active Regions and the Magnetohydrodynamical Structure of the Convection Zone

Hirokazu Yoshimura **33**, 131

Solar Rotation in the Chromosphere and Corona

William Henze, Jr. and A. K. Dupree **33**, 425

Rigid and Differential Rotation of the Solar Corona

Ester Antonucci and Leif Svalgaard **34**, 3

Yearly Variation in the Synodic Rotation Period of the Sun

Werner Graf **37**, 257 *Erratum 40*, 514

Long Term Variation of the Solar Equatorial Velocity and Its Relation to Non-Axisymmetric Convection

G. Belvedere and L. Paternò **41**, 289

- The Structure and Evolution of Coronal Holes
A. F. Timothy, A. S. Krieger, and G. S. Vaiana 42, 135
- Equilibrium Problems in a Rotating Convection Zone
Yu. V. Vandakurov 45, 501
- Variation of the Solar Atmospheric Rotation over the 11 Year Cycle
Mohamed El-Raey and R. Amer 45, 533
- Solar Rotation during the Maunder Minimum
J. A. Eddy, P. A. Gilman, and D. E. Trotter 46, 3
- Two-Dimensional Stochastic Motions and the Problem of Differential Rotation
Günther Rüdiger 51, 257
- Pulsation, Rotation and Sunspot Cycle
Dirk K. Callebaut 51, 271
- On the Sun's Pole-Equator Flux Differences
Gaetano Belvedere and Lucio Paternò 52, 191
- Chromospheric Rotation during 1972-73, Years of Declining Activity
E. Antonucci, L. Azzarelli, P. Casalini, and S. Cerri 53, 519
- Convection in a Rotating Deep Compressible Spherical Shell: Application to the Sun
Gaetano Belvedere and Lucio Paternò 54, 289
- On the Supposed Anticorrelation of Solar Polar and Equatorial Rotation Rates
T. L. Duvall, Jr. and L. Svalgaard 56, 463
- Magnetic Field Rotation at High Solar Latitudes
Robert Howard 59, 243
- An Attempt to Compare the Differential Rotation of Ca^+ -Network with that of the Photospheric Plasma
E. H. Schröter, H. Wöhl, D. Soltau, and M. Vázquez 60, 181
- Some Results of a Statistical Analysis of the S-Component of Solar Radio Emission
H. Aurass, J. Kurths, and W. Voigt 60, 361
- Absolute Spectroscopic Determination of Solar Rotation
J. L. Snider, A. M. Howald, M. D. Kearns, S. W. Thomas, and P. A. Tinker 61, 3
- Chromospheric Rotation. I: Dependence on the Lifetime of Chromospheric Features
E. Antonucci, L. Azzarelli, P. Casalini, S. Cerri, and F. Denoth 61, 9
- Solar Rotation, 1966-1978
W. Livingston and T. L. Duvall, Jr. 61, 219
- Rotation and Lifetime of Coronal Features
Ester Antonucci and Maria Adele Doderò 62, 107
- Measurement of Solar Rotation, 1978, from Recurrent and Non-Recurrent Sunspots
Mark Kearns 62, 393
- Large-Scale Solar Velocity Fields
Thomas L. Duvall, Jr. 63, 3
- Chromospheric Rotation. II. Dependence on the Size of Chromospheric Features
E. Antonucci, L. Azzarelli, P. Casalini, S. Cerri, and F. Denoth 63, 17
- On the Rotation Rates of Sunspot Groups
G. Godoli and F. Mazzuconi 64, 247
- Solar Rotation Measurements at Mount Wilson. I: Analysis and Instrumental Effects
Robert Howard, John E. Boyden, and Barry J. LaBonte 66, 167
- Solar Rotation Studies Using Sunspot Data (1967-1974)
Donald F. Neidig 66, 205
- The Equatorial Rotation Rate of the Supergranulation Cells
Thomas L. Duvall, Jr. 66, 213
- The Orientation of the Solar Rotation Axis from Doppler Velocity Observations
Barry J. LaBonte 69, 177
- Rotation Rate of High-Latitude Sunspots
Frances Tang 69, 399
- Solar Rotation Velocity as Determined from Sunspot Drawings of J. Hevelius in the 17th Century
Claudia Abarbanell and Hubertus Wöhl 70, 197
- Photospheric Subrotation, Differential Rotation and Zonal Wind Bands: A Reverse Pirouette
K. H. Schatten, H. G. Mayr, and Randolph H. Levine 71, 169

On Diurnal Variations of the Solar Rotation Rate as Derived from Sunspot Tracings

A. Koch, H. Wöhl, and E. H. Schröter **71**, 395

Solar Rotation Measurements at Mount Wilson. II: Systematic Instrumental Effects and the Absolute Rotation Rate

Barry J. LaBonte and Robert Howard **73**, 3

A Mechanism for Solar Ultraviolet Flux Variability

Kenneth H. Schatten and Donald F. Heath **73**, 13

Additional Measurements of the High-Latitude Sunspot Rotation Rate

Donald A. Landman and Jill T. Takushi **73**, 379

Quasi-Biennial Periodicity in the Solar Neutrino Flux and Its Relation to the Solar Structure

Kunitomo Sakurai **74**, 35

The Influence of the Angular Velocity Distribution on the Energy Transport in the Sun's Convection Zone

G. Belvedere, G. La Rosa, and L. Paternò **74**, 107

The Age Dependence of Photospheric Tracer Rotation

M. Ternullo, R. A. Zappalà, and F. Zuccarello **74**, 111

Positions of Sunspot Groups and Solar Rotation

Jaakko Tuominen and Juhani Kyröläinen **74**, 153

Torsional Waves on the Sun and the Activity Cycle

B. J. LaBonte and R. Howard **75**, 161

On Changes of the Rotation Velocities of Stable, Recurrent Sunspots and Their Interpretation with a Flux Tube Model

Horst Balthasar, Manfred Schüssler, and Hubertus Wöhl **76**, 21

The Equatorial Photospheric Rotation Rate

Thomas L. Duvall, Jr. **76**, 137

Recurrence of Solar Activity: Evidence for Active Longitudes

Richard S. Bogart **76**, 155

Rotational Modulation of Ca K Flux Ratio and Sunspot Number

R. W. Stimets and C. Londono **76**, 167

Nonlinear Simulations of Solar Rotation Effects in Supergranules

David H. Hathaway **77**, 341

On the Latitude Drift of Sunspot Groups and Solar Rotation

Jaakko Tuominen and Juhani Kyröläinen **79**, 161

Open Magnetic Fields and the Solar Cycle. I: Photospheric Sources of Open Magnetic Flux

Randolph H. Levine **79**, 203

Solar Rotation Measurements at Mount Wilson. III: Meridional Flow and Limbshift

Barry J. LaBonte and Robert Howard **80**, 361

Recent Observations of High-Degree Solar *p*-Mode Oscillations at the Kitt Peak National Observatory (*Invited Review, Abstract*)

Edward J. Rhodes, Jr., John W. Harvey, and Thomas L. Duvall, Jr. **82**, 111

Rotational Splitting of Solar Five-Minute Oscillations of Low Degree (*Invited Review, Abstract*)

A. Claverie, G. R. Isaak, C. P. McLeod, H. B. van der Raay, and T. Roca Cortes **82**, 233

Is There an Oblique Magnetic Rotator Inside the Sun? (*Invited Review, Abstract*)

G. R. Isaak **82**, 235

Evidence for the Phi-Dependent Rotation-Oscillation of the Sun (and for the Driving Mechanism of the Asymmetric Dynamo)

I. K. Csada **82**, 439

Solar Rotation Results at Mount Wilson. IV: Results

R. Howard, J. M. Adkins, J. E. Boyden, T. A. Cragg, T. S. Gregory, B. J. LaBonte, S. P. Padilla, and L. Webster **83**, 321

On the Depth Dependence of the Solar Rotation Velocity Determined from Fraunhofer Lines

Horst Balthasar **84**, 371

New Absolute Spectroscopic Measurement of the Solar Equatorial Rotation Rate

J. L. Snider **84**, 377

Another View of Synodic Solar Rotation

A. Kubičela and M. Karabin **84**, 389

- On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. I: Comparison of Results from Different Observatories and Different Observing Procedures
Hubertus Wöhl 88, 65
- On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. II: Systematic Effects Caused by the Wilson Depression
Horst Balthasar and Hubertus Wöhl 88, 71
- Recalibration of Mount Wilson Doppler Measurements
H. B. Snodgrass, R. Howard, and L. Webster 90, 199
- On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. III: Effects Caused by Wrong Solar Image Radii and Their Corrections
Horst Balthasar, Günter Lustig, and Hubertus Wöhl 91, 55
- Plasma Motion in Umbrae and the Surrounding Photosphere Derived from Spectroscopic Doppler Measurements and Tracer Measurements of Spots
Axel Koch 93, 53
- Solar Rotation from a Number of Fraunhofer Lines
A. Keith Pierce and James C. LoPresto 93, 155
- Asymmetries and Wavelengths of Solar Spectral Lines and the Solar Rotation Determined from Fourier-Transform Spectra
Horst Balthasar 93, 219
- Separation of Large-Scale Photospheric Doppler Patterns
Herschel B. Snodgrass 94, 13
- The Effect of Spatial Smearing on Solar Doppler Measurements. I: Mathematical Formulation and Application to Measurements of Solar Rotation
F. Albregtsen and B. N. Andersen 95, 239
- Water Vapor and Fe 5250.2
W. Livingston and L. Wallace 95, 251
- Variations in the Solar Rotation Rate Derived from Ca⁺ K Plage Areas
Jagdev Singh and T. P. Prabhu 97, 203
- Straylight Correction to Doppler Rotation Measurements
B. N. Andersen 98, 173
- Inverting Helioseismic Data (*Invited Review Paper*)
Douglas Gough 100, 65

Rotation, Differential

- Solar Rotation, 1966-68
W. C. Livingston 7, 144
- Sunspot Motion Statistics for 1965-67
Helen E. Coffey and Peter A. Gilman 9, 423
- On the Differential Rotation with Height in the Solar Atmosphere
W. C. Livingston 9, 448
- Differential Rotation of the Electron Corona
Richard T. Hansen, Shirley F. Hansen, and Harold G. Loomis 10, 135
- The Maintenance of Solar Differential Rotation by Two-Dimensional Turbulence. A Numerical Model
George H. Nickel 10, 472
- The Solar Differential Rotation and 'Rossby-Type' Waves
Shoji Kato and Y. Nakagawa 10, 476
- On Large-Scale Solar Convection
Robert P. Davies-Jones and Peter A. Gilman 12, 3
- Spectroscopic Determinations of Solar Rotation
Robert Howard and J. Harvey 12, 23
- Differential Rotation Caused by Anisotropic Turbulent Viscosity
H. Köhler 13, 3
- Differential Rotation of the Photospheric Magnetic Field
John M. Wilcox and Robert Howard 13, 251
- Photospheric Magnetic Field Rotation: Rigid and Differential
John M. Wilcox, Kenneth H. Schatten, Andrew S. Tanenbaum, and Robert Howard 14, 255

Inhomogeneous Convection and the Equatorial Acceleration of the Sun

B. R. Durney and I. W. Roxburgh **16, 3**
The Longitudinal Distribution of the Green Coronal Activity

J. Sýkora **18, 72**
Complexes of Activity of the Solar Cycle and Very Large Scale Convection

Hirokazu Yoshimura **18, 417**
The Rotation of Magnetic Loop Systems in the Solar Atmosphere

G. W. Pneuman **19, 16**
A Method for Constructing Streamlines for the Sun's Large Scale Flow from Doppler Velocities

Peter A. Gilman **19, 40**
Large-Scale Motions in the Sun

J. H. Piddington **21, 4**
On Time Variations of the Solar Differential Rotation Law and Asymmetry of the Global Distribution of the Solar Activity

Hirokazu Yoshimura **22, 20**
Differential Rotation and the Structure and Energy Content of Coronal Magnetic Fields

M. A. Raadu **22, 443**
On the Dependence of the Linear Velocity of Solar Rotation on Latitude and Optical Depth

Y. A. Solonsky **23, 3**
On the Sun's Differential Rotation and Pole-Equator Temperature Difference

B. Durney **26, 3**
Solar Rotation as Measured in EUV Chromospheric and Coronal Lines

George W. Simon and Robert W. Noyes **26, 8**
Differential Rotation in the Solar Atmosphere Inferred from Optical, Radio, and Interplanetary Data

Mohamed El-Raey and Philip H. Scherrer **26, 15**
Large-Scale Photospheric Magnetic Field: The Diffusion of Active Region Fields

Kenneth H. Schatten, Robert B. Leighton, Robert Howard, and John M. Wilcox **26, 283**
Nonlinear Boussinesq Convective Model for Large Scale Solar Circulations

Peter A. Gilman **27, 3**
Solar Rotation as Determined from OSO-4 EUV Spectroheliograms

A. K. Dupree and W. Henze, Jr. **27, 271**
Solar Polar Spin-Down

Kenneth H. Schatten **32, 315**
Solar Rotation in the Chromosphere and Corona

William Henze, Jr. and A. K. Dupree **33, 425**
Rigid and Differential Rotation of the Solar Corona

Ester Antonucci and Leif Svalgaard **34, 3**
On Differential Rotation

H. Köhler **34, 11**
The Influence of Non-Uniform Solar Wind Expansion on the Angular Momentum Loss from the Sun

E. R. Priest and G. W. Pneuman **34, 231**
Differential Rotation of Solar Filaments

David L. Glackin **36, 51**
Comments on 'Solar Polar Spindown', by Kenneth Schatten

Peter A. Gilman **36, 61**
Differential Rotation and Sector Structure of Solar Magnetic Fields

J. O. Stenflo **36, 495**
Reply to Gilman Concerning 'Solar Polar Spin-Down'

Kenneth H. Schatten **37, 487**
Comments on Schatten's Reply to My Comments on 'Solar Polar Spindown'

Peter A. Gilman **37, 491**
On the Sun's Differential Rotation. Implications of the Difference in Angular Velocity between the Sunspots and Photosphere

B. R. Durney **38, 301**
An Anticorrelation between Polar and Equatorial Rotation of the Solar Photosphere

Charles L. Wolff **41, 297**

- Differential Rotation, Meridional and Random Motions of the Solar Ca^+ Network
 E. H. Schröter and H. Wöhl 42, 3
- Differential Rotation and the Spot Zones
 Franz-Ludwig Deubner and Manuel Vazquez 43, 87
- Differential Rotation and Reconnection as Basic Causes of Some Coronal Reorientations
 Shirley F. Hansen and Richard T. Hansen 44, 503
- Solar Rotation during the Maunder Minimum
 J. A. Eddy, P. A. Gilman, and D. E. Trotter 46, 3
- Differential Rotation of the Solar Atmosphere as Determined from Millimeter Data
 Sou-Yang Liu and M. R. Kundu 46, 15
- Surface Reynolds Stresses Determined from the Analysis of Facular Motions and the Maintenance of the Sun's Differential Rotation
 G. Belvedere, G. Godoli, S. Motta, L. Paternò, and R. A. Zappalà 46, 23
- Large Scale Circulation in the Convection Zone and Solar Differential Rotation
 G. Belvedere and L. Paternò 47, 525
- Differential Rotation of Photospheric Magnetic Fields Associated with Coronal Holes
 W. M. Adams 47, 601
- Differential Rotation and Giant Cell Circulation of Solar Ca^+ -Network
 E. H. Schröter and H. Wöhl 49, 19
- Phase Relation between the Poloidal and Toroidal Solar-Cycle General Magnetic Fields and Location of the Origin of the Surface Magnetic Fields
 Hirokazu Yoshimura 50, 3
- Two-Dimensional Stochastic Motions and the Problem of Differential Rotation
 Günther Rüdiger 51, 257
- Extreme-Ultraviolet Observations of Coronal Holes. I: Locations, Sizes and Evolution of Coronal Holes, June 1973-January 1974
 J. D. Bohlin 51, 377
- Outward Transport of Angular Momentum by Gas Convection and the Equatorial Acceleration of the Sun
 E. M. Drobyshevski 51, 473
- Coronal Rotation Dependence on the Solar Cycle Phase
 Ester Antonucci and Maria Adele Dodero 53, 179
- Chromospheric Rotation during 1972-73, Years of Declining Activity
 E. Antonucci, L. Azzarelli, P. Casalini, and S. Cerri 53, 519
- Differential Rotation of Short-Lived Solar Filaments
 W. M. Adams and Frances Tang 55, 499
- On the Supposed Anticorrelation of Solar Polar and Equatorial Rotation Rates
 T. L. Duvall, Jr. and L. Svalgaard 56, 463
- Comments on the So-Called Maunder Minimum
 Yu. I. Vitinsky 57, 475
- Comments on 'Outward Transport on Angular Momentum...' by E. M. Drobyshevski
 Günther Rüdiger 59, 237
- An Attempt to Compare the Differential Rotation of Ca^+ -Network with that of the Photospheric Plasma
 E. H. Schröter, H. Wöhl, D. Soltau, and M. Vázquez 60, 181
- Momentum and Energy Transport in the Sun's Convection Zone under the Observational Constraint of Flux and Temperature Homogeneity at the Surface
 Gaetano Belvedere and Lucio Paternò 60, 203
- Rotation and Lifetime of Coronal Features
 Ester Antonucci and Maria Adele Dodero 62, 107
- Chromospheric Rotation. II. Dependence on the Size of Chromospheric Features
 E. Antonucci, L. Azzarelli, P. Casalini, S. Cerri, and F. Denoth 63, 17
- Solar Rotation Measurements at Mount Wilson. I: Analysis and Instrumental Effects
 Robert Howard, John E. Boyden, and Barry J. LaBonte 66, 167
- Rotation Rate of High-Latitude Sunspots
 Frances Tang 69, 399
- Solar Rotation Velocity as Determined from Sunspot Drawings of J. Hevelius in the 17th Century
 Claudia Abarbanell and Hubertus Wöhl 70, 197

Photospheric Subrotation, Differential Rotation and Zonal Wind Bands: A Reverse Pirouette

K. H. Schatten, H. G. Mayr, and Randolph H. Levine **71**, 169

The Age Dependence of Photospheric Tracer Rotation

M. Ternullo, R. A. Zappalà, and F. Zuccarello **74**, 111

Coronal Rotation during Solar Cycle 20

G. D. Parker, R. T. Hansen, and S. F. Hansen **80**, 185

Adiabatic Oscillations of a Differentially Rotating Star. Second-Order Perturbation Theory

S. V. Vorontsov **82**, 379

Relationships between Photospheric Plasma Angular Velocity and Solar Activity

G. Godoli and F. Mazzuconi **83**, 339

Solar Rotation from a Number of Fraunhofer Lines

A. Keith Pierce and James C. LoPresto **93**, 155

Differential Rotation of Coronal Holes

Rajendra N. Shelke and M. C. Pande **95**, 193

Torsional Oscillations of Low Mode

Herschel B. Snodgrass and Robert Howard **95**, 221

The Solar Differential Rotation: Present Status of Observations (*Invited Review Paper*)

E. H. Schröter **100**, 141

Rotation, Stellar (*see Stellar Physics*)

Scattered Light (*see Instrumental Effects*)

Solar Cycle

On the 11-Years Cycle of Solar Activity

M. N. Gnevyshev **1**, 107

Secularly Smoothed Data on the Minima and Maxima of Sunspot Frequency

W. Gleissberg **2**, 231

Interplanetary Sector Structure, 1962-1966

Norman F. Ness and John M. Wilcox **2**, 351

The Starting Frequencies of Type III Bursts

J. McKim Malville **2**, 484

Some Features of Relative Sunspot Number during the Declining Phase of Solar Cycle 19

B. N. Bhargava **3**, 351

On the Relation between the Solar Activity Cycle and the Solar Tidal Force Induced by the Planets

Kozo Takahashi **3**, 598

On Long-Term Forecasts of Proton Flares

Zdeněk Švestka **4**, 18

The Duration of the Zonal Spot Activity

W. Gleissberg **4**, 93

The Experience of Using the Determined-Probabilistic Learning Information System (DPLIS) for Solar Activity Forecasting

V. P. Kukushkina, A. P. Reznikov, I. P. Druzhinin, and G. V. Kuklin **5**, 118

The 44-60 Å Flux during the Ascending Period of the Solar Cycle No. 20 (1964-67)

M. Landini, B. C. Monsignori Fossi, G. Poletto, and G. L. Tagliaferri **5**, 546

Coronal Streamers. II: Open Streamer Configurations

G. W. Pneuman **6**, 255

Solar Activity and Recurrences in Magnetic-Field Distribution

V. Bumba and R. Howard **7**, 28

Solar Activity and the 11-Year Modulation of Cosmic Rays

V. K. Balasubrahmanyam **7**, 39

Some Statistical Properties of Surges

Hans Westin **7**, 393

Brightness Variations of the White Light Corona during the Years 1964-67

Richard T. Hansen, Charles J. Garcia, Shirley F. Hansen, and Harold G. Loomis **7**, 417

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. II: Statistical Properties of the Microwave Emission Associated with Sunspots

J. Roosen **8**, 204

General Magnetic Field and Rotation of the Outer Layers of the Sun

F. Unz and K. Walter 8, 310

On a Relation between the Indices of Solar Activity in the Photosphere and the Corona

John Xanthakis 10, 168

Some Characteristics of the Solar Wind Inferred from the Study of Sodium Emission from Cometary Nuclei

M. K. V. Bappu and K. R. Sivaraman 10, 496

Solar Activity, 27-Day Variation and Long Term Modulation of Cosmic Ray Intensity

V. K. Balasubrahmanyam and D. Venkatesan 11, 151

Temperature Difference between the Equator and the Poles of the Sun

B. Caccin, R. Falciani, G. Moschi, and M. Rigutti 13, 33

Note on the Dependence of the Duration of the Zonal Spot Activity on the Solar Rotation

W. Gleissberg 14, 166

Unified Theory of the Interplanetary Magnetic Field

Ronald L. Ronsenberg 15, 72

Comments on 'Solar Activity, 27-Day Variation and Long-Term Modulation of Cosmic-Ray Intensity' by V. K. Balasubrahmanyam and D. Venkatesan

J. A. Lockwood 16, 488

Three Years Statistics of Simple 3 Solar Bursts

Oscar T. Matsuura and P. Marques dos Santos 17, 402

The Longitudinal Distribution of the Green Coronal Activity

J. Sýkora 18, 72

Longitude Distribution of Solar Flares

P. C. W. Fung, P. A. Sturrock, P. Switzer, and G. Van Hoven 18, 90

Solar Activity and Planetary Luminosity

V. K. Balasubrahmanyam and D. Venkatesan 19, 257

The Asymmetry of Solar Activity in the Years 1959-1969

M. Waldmeier 20, 332

A Feature of the Secularly Smoothed Maxima of Sunspot Frequency

R. Henkel 20, 345

Large-Scale Motions in the Sun

J. H. Piddington 21, 4

The Probable Behaviour of Sunspot Cycle 21

W. Gleissberg 21, 240

A New Representation of the 80-Year Cycle in Sunspot Frequency

Renate Hartmann 21, 246

Evolution of Solar Magnetic Fields over an 11-Year Period

J. O. Stenflo 23, 307

On the Temporal Distribution of Type IV Burst-Active Centres over the Solar Cycle

A. Krüger and B. Trunkkeller 24, 233

Polar Magnetic Fields of the Sun: 1960-1971

Robert Howard 25, 5

Solar Cycle Variation and N-S Asymmetry of $\lambda 5303$ Coronal Intensity

P. N. Pathak 25, 489

Evidence for Two Maxima of Activity in the 20th Solar Cycle

S. Cuperman and A. Sternlieb 25, 493

Evidence for an Ultra-Long Cycle of Solar Activity

R. Henkel 25, 498

Large-Scale Photospheric Magnetic Field: The Diffusion of Active Region Fields

Kenneth H. Schatten, Robert B. Leighton, Robert Howard, and John M. Wilcox 26, 283

The Time-Latitude Distribution of Solar Flares Accompanied by Type IV Radio Bursts during the Period 1956 to 1969

Michael D. Papagiannis, Christos S. Zerefos, and Christos C. Repapis 27, 208

A Secondary Polar Zone of Solar Prominences

M. Waldmeier 28, 389

Short Periodicities in Solar Activity

K. Ramanuja Rao 29, 47

- A Comment on the Flare Activity in August 1972
L. Fritzová-Švestková and Z. Švestka 29, 417
- The East-West Asymmetry in the Number of Spot-Groups in Relation to Their Classification
Reinhart Bartsch 30, 93
- Periodicities in Solar Activity
T. W. Cole 30, 103
- Revision of the Probability Laws of Sunspot Variations
W. Gleissberg 30, 539
- Test for Planetary Influences on Solar Activity
L. A. Dingle, G. Van Hoven, and P. A. Sturrock 31, 243
- Solar-Cycle Dependence of Galactic Cosmic Ray Flux. I: Coronal Indices
G. D. Parker 31, 259
- Quiet Corona Density Model for the Last Maximum of Solar Activity
Y. Leblanc, J. L. Leroy, and P. Pecanet 31, 343
- Coronal Disturbances. I: Fast Transient Events Observed in the Green Coronal Emission Line during the Last Solar Cycle
H. L. DeMastus, W. J. Wagner, and R. D. Robinson 31, 449
- The Representation of the Semi-Annual Variation of the Geomagnetic Activity by an Annual Sine Wave
J. Houtgast and A. van Sluiter 31, 513
- Latitude and Solar-Cycle Dependence of the Height of 9.1 cm Radio Emission
W. Graf and R. N. Bracewell 33, 75
- Short and Long-Term Variations in the Cosmic Ray Intensity and Their Connection with the 5303 Å Coronal Line Intensity in Solar Cycle No. 20
N. Iucci, M. Parisi, and G. Villorresi 33, 505
- Eleven-Years Inversion of the Green Corona Emission
Ester Antonucci 34, 471
- Magnetic Fine Structure and the Solar Magnetic Monopole
C. Sawyer 35, 37
- The Solar Wind Velocity in the Eleven-Year Cycle No. 20 and the Solar Radar Cross-Section
Stephen Pintér 35, 225
- Short Period Variation of the Photospheric Magnetic Field
I. K. Csada 35, 325
- Differential Rotation and Sector Structure of Solar Magnetic Fields
J. O. Stenflo 36, 495
- A Model Combining the Polar and the Sector Structured Solar Magnetic Fields
Leif Svalgaard, John M. Wilcox, and Thomas L. Duvall 37, 157
- Studies of Solar Magnetic Fields. II: The Magnetic Fluxes
Robert Howard 38, 59
- Studies of Solar Magnetic Fields. I: The Average Field Strengths
Robert Howard 38, 283
- Solar Cycle Variation of Large-Scale Coronal Structures
Ester Antonucci and Thomas L. Duvall 38, 439
- The Large-Scale Solar Magnetic Field
Martin D. Altschuler, Dorothy E. Trotter, Gordon Newkirk, Jr., and Robert Howard 39, 3
- Solar Cycle Variation in Energetic Particle Emissivity of the Sun
Y. Hakura 39, 493
- Evolution of the Solar Lyman Alpha Flux during Four Consecutive Years
A. Vidal-Madjar 40, 69
- Ephemeral Active Regions in 1970 and 1973
K. L. Harvey, J. W. Harvey, and S. F. Martin 40, 87
- Recurrent Magnetic Activity, Sunspot Number and Its Rate of Decline
B. N. Bhargava and G. K. Rangarajan 40, 235
- An Anticorrelation between Polar and Equatorial Rotation of the Solar Photosphere
Charles L. Wolff 41, 297
- X-Ray Bright Points, Coronal Heating and the Solar Cycle
M. H. Gokhale 41, 381

Long Term Evolution of Solar Sector Structure

Leif Svalgaard and John M. Wilcox 41, 461

Comments on the Course of Solar Activity during the Declining Phase of Solar Cycle 20 (1970-74)

H. W. Dodson and E. R. Hedeman 42, 121

On the Possibility of Deducing Interplanetary and Solar Parameters from Geomagnetic Records

C. T. Russell 42, 259

Source Regions for Type II Radio Bursts

James C. Dodge 42, 445

Measurements of the Interplanetary Magnetic Field in Relation to the Modulation of Cosmic Rays

P. C. Hedgcock 42, 497

Planetary Tides and Sunspot Cycles

J. J. Condon and R. R. Schmidt 42, 529

Differential Rotation and the Spot Zones

Franz-Ludwig Deubner and Manuel Vazquez 43, 87

The Brightness of the Helium D₃ Line in the Undisturbed Chromosphere from Eclipse Observations

R. A. Gulyaev 44, 25

Solar Radio Emission at 9.1 cm and Sector Boundaries

W. Graf and R. N. Bracewell 44, 195

Global Distribution of Filaments during Solar Cycle No. 20

Richard Hansen and Shirley Hansen 44, 225

Differential Rotation and Reconnection as Basic Causes of Some Coronal Reorientations

Shirley F. Hansen and Richard T. Hansen 44, 503

Search for Long Term Variations of the Interplanetary Magnetic Field

F. Mariani, L. Diodato, and G. Moreno 45, 241

Variation of the Solar Atmospheric Rotation over the 11 Year Cycle

Mohamed El-Raey and R. Amer 45, 533

Solar Rotation during the Maunder Minimum

J. A. Eddy, P. A. Gilman, and D. E. Trotter 46, 3

22-Year Cycle or 11-Year Cycle in the Latitude Drift of Sunspot Groups?

Jaakko Tuominen 47, 541

Solar Cycle General Magnetic Fields of 1959-1974 and Dynamical Structure of the Convection Zone

Hirokazu Yoshimura 47, 581

Frequency of Coronal Transients and Solar Activity

E. Hildner, J. T. Gosling, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 48, 127

Solar-Cycle Dependence of Galactic Cosmic Ray Flux. II: The Correlation between the Nucleonic Flux and Solar Indices

G. D. Parker, R. L. Chasson, R. T. Hansen, and S. F. Hansen 48, 399

The Hale Solar Sector Boundary

Leif Svalgaard and John M. Wilcox 49, 177

Coronal Faraday Rotation of the Crab Nebula, 1971-1975

Y. Sofue, K. Kawabata, F. Takahashi, and N. Kawajiri 50, 465

Comments on a Formula Describing the Secular Course of Sunspot Activity

K. H. Schroeter 50, 501

Essential Features of the 11-Year Solar Cycle

M. N. Gnevyshev 51, 175

Pulsation, Rotation and Sunspot Cycle

Dirk K. Callebaut 51, 271

Coronal General Magnetic Field Evolution as a New Parameter of the Solar Cycle

Hirokazu Yoshimura 52, 41

The North-South Distribution of Major Solar Flare Events, Sunspot Magnetic Classes and Sunspot Areas (1955-1974)

J.-René Roy 52, 53

A Pictorial Comparison of Interplanetary Magnetic Field Polarity, Solar Wind Speed, and Geomagnetic Disturbance Index during the Sunspot Cycle

N. R. Sheeley, Jr., J. R. Asbridge, S. J. Bame, and J. W. Harvey 52, 485

Coronal Rotation Dependence on the Solar Cycle Phase

Ester Antonucci and Maria Adele Dodero 53, 179

- The Results of Statistical Analysis of the Coronal Profiles above the Solar Active Regions
E. I. Tetrushvili **54**, 135
- Solar-Cycle Evolution of the Coronal General Magnetic Field of 1959-1974 and the Synchronous Variation of High-Speed Solar Wind Streams and Galactic Cosmic Rays
Hirokazu Yoshimura **54**, 229
- A Survey of Coronal Holes and Their Solar Wind Associations throughout Sunspot Cycle 20
R. M. Broussard, N. R. Sheeley, Jr., R. Tousey, and J. H. Underwood **56**, 161
- A Solar Cycle Variation of the Interplanetary Magnetic Field
G. L. Siscoe, N. U. Crooker, and L. Christopher **56**, 449
- A Forecast of Solar Activity for the 21st Solar Cycle
J. Xanthakis and C. Poulakos **56**, 467
- Comments on the So-Called Maunder Minimum
Yu. I. Vitinsky **57**, 475
- Solar Cycles between 1540 and 1700
F. Link **59**, 175
- A Sunspot Analysis: 1943-1977
M. G. Fracastoro and D. Marocchi **60**, 171
- Solar Wind Stream Structure during the Early Phase of the Solar Cycles 20 and 21
J. T. Nolte, J. M. Davis, and J. D. Sullivan **60**, 207
- Some Results of a Statistical Analysis of the S-Component of Solar Radio Emission
H. Aurass, J. Kurths, and W. Voigt **60**, 361
- Solar Rotation, 1966-1978
W. Livingston and T. L. Duvall, Jr. **61**, 219
- The Solar Corona 530.3 nm in the 20th Cycle
V. Rušin, M. Rybanský, and L. Scheirich **61**, 301
- A Solar Cycle Variation of the Interplanetary Magnetic Field Configuration
Basil P. Tritakis **63**, 207
- Polar Coronal Holes and Solar Cycles
Paul A. Simon **63**, 399
- Sunspot Turning-Points and Aurorae since A.D. 1510
D. J. Schove **63**, 423
- Ephemeral Active Regions during Solar Minimum
Sara F. Martin and Karen L. Harvey **64**, 93
- Statistics of the Largest Sunspot and Facular Areas per Solar Cycle
D. M. Willis and Y. Kabasakal Tulunay **64**, 237
- The Evolution of the Polar Coronal Holes
N. R. Sheeley, Jr. **65**, 229
- Solar Flares and the Cosmic Ray Intensity
C. J. Hatton **66**, 159
- Ancient Chinese Observations of Physical Phenomena Attending Solar Eclipses
P. K. Wang and G. L. Siscoe **66**, 187
- The Use of Solar Faculae in Studies of the Sunspot Cycle
G. M. Brown and D. R. Evans **66**, 233
- The Solar $L\alpha$ Flux near Solar Minimum
A. Vidal-Madjar and B. Phissamay **66**, 259
- Relationship between Sunspot Numbers during Years of Sunspot Maximum and Sunspot Minimum
R. P. Kane and N. B. Trivedi **68**, 135
- Latitude Variations of Photospheric Activity Areas with Particular Reference to Solar Faculae
G. M. Brown and D. R. Evans **68**, 141
- Distribution of Sunspots 1874-1976
B. D. Yallop and C. Y. Hohenkerk **68**, 303
- Coronal Transients near Sunspot Maximum
A. I. Poland, R. A. Howard, M. J. Koomen, D. J. Michels, and N. R. Sheeley, Jr. **69**, 169
- Ten Cycles of Solar and Geomagnetic Activity
J. P. Legrand and P. A. Simon **70**, 173
- Cyclic Variations of the Polar Coronal Hole
M. Waldmeier **70**, 251

- A Dependence on Solar Cycle on the Size of the Ca^+ Network
Jagdev Singh and M. K. V. Bappu **71**, 161
- Solar Cycle Variation of Sunspot Intensity
F. Albregtsen and P. Maltby **71**, 269
- The Parameters of Solar Cycle No. 21
M. Waldmeier **73**, 207
- Proceedings of the 14th ESLAB Symposium 'Physics of Solar Variations' held in Scheveningen, The Netherlands, 16-19 September 1980, *Table of Contents*
74, 3
- Proceedings of the 14th ESLAB Symposium 'Physics of Solar Variations' held in Scheveningen, The Netherlands, 16-19 September 1980, *Introduction*
V. Domingo, Editor **74**, 7
- Reflections on Solar Variability
Cornelis de Jager **74**, 11
- Solar Interior Structure and Luminosity Variations
D. O. Gough **74**, 21
- Sunspot Populations and Their Relation with the Solar Cycle
J. I. García de la Rosa **74**, 117
- Possible Use of (a) Solar Faculae and (b) the Interplanetary Magnetic Field as Heralds of a Solar Cycle Peak
G. M. Brown **74**, 125
- Surface Magnetic Fields during the Solar Activity Cycle
Robert Howard and Barry J. LaBonte **74**, 131
- Solar Irradiance below 120 nm and Its Variations
Gerhard Schmidtke **74**, 251
- Solar Irradiance between 120 and 400 nm and Its Variations
Paul C. Simon **74**, 273
- A 1600 Year Long Record of Solar Change Derived from Atmospheric ^{14}C Levels
Minze Stuiver and Paul D. Quay **74**, 479
- Torsional Waves on the Sun and the Activity Cycle
B. J. LaBonte and R. Howard **75**, 161
- The Evolution and the Secondary Maximum of the Green Line Intensity
J. Xanthakis, B. Petropoulos, and H. Mavromichalaki **76**, 181
- On the Relative Roles of Unipolar and Mixed-Polarity Fields
Ronald G. Giovanelli **77**, 27
- The Revival of Solar Activity after Maunder Minimum in Reports and Observations of E. Manfredi
E. Baiada and R. Merighi **77**, 357
- On the Latitude Drift of Sunspot Groups and Solar Rotation
Jaakko Tuominen and Juhani Kyröläinen **79**, 161
- Open Magnetic Fields and the Solar Cycle. I: Photospheric Sources of Open Magnetic Flux
Randolph H. Levine **79**, 203
- The Magnetic Flux in the Quiet Sun Network
Barry J. LaBonte and Robert Howard **80**, 15
- Coronal Rotation during Solar Cycle 20
G. D. Parker, R. T. Hansen, and S. F. Hansen **80**, 185
- Are the High-Latitude Torsional Oscillations of the Sun Real?
Barry J. LaBonte and Robert Howard **80**, 373
- On Long-Term Periodicities in the Sunspot Cycle
Steven G. Wallenhorst **80**, 379
- Maunder Convection Mode on the Sun and Long Solar Activity Minima
V. A. Dogiel **82**, 427
- Torsional Oscillations of the Sun (*Invited Review, Abstract*)
Robert Howard **82**, 437
- The Magnetic Field in the Prominences of the Polar Crown
J. L. Leroy, V. Bommier, and S. Sahal-Bréchet **83**, 135
- Helium Abundance Variations in the Solar Wind
G. Borriini, J. T. Gosling, S. J. Bame, and W. C. Feldman **83**, 367

North-South Asymmetries in the 530.3 nm Coronal Line from 1958 to 1980

X. Moussas, N. Papastamatiou, V. Rušin, and M. Rybanský **84**, 71

Poleward Migration of the Magnetic Neutral Line and the Reversal of the Polar Fields on the Sun. I: Period 1945-1981

V. I. Makarov, M. P. Fatianov, and K. R. Sivaraman **85**, 215

Poleward Migration of the Magnetic Neutral Line and the Reversal of the Polar Fields on the Sun. II: Period 1904-1940

V. I. Makarov and K. R. Sivaraman **85**, 227

Preferred Longitudes of Sunspot Groups and High-Speed Solar Wind Streams: Evidence for a 'Solar Memory'

Horst Balthasar and Manfred Schussler **87**, 23

Solar Cycle Dynamo Wave Origin of Sunspot Intensity and X-Ray Bright Point Number Variation

Hirokazu Yoshimura **87**, 251

X-Ray Bright Points and the Sunspot Cycle: Further Results and Predictions

John M. Davis **88**, 337

A Quantitative Study of Ca II Network Geometry

Nirupama Raghavan **89**, 35

The Maunder Minimum: A Reappraisal

John A. Eddy **89**, 195

On the Existence of Long-Term Periodicities in Solar Activity

J. A. Otaola and G. Zenteno **89**, 209

Limb-Darkening and Solar Cycle Variation of Sunspot Intensities

F. Albrechtsen, P. B. Jorås, and P. Maltby **90**, 17

Stability of the Photometric Observations of the Solar Corona and Variations of Its Intensity in the Solar Cycle 21

M. N. Gnevyshev and V. P. Mikhailutsa **90**, 177

Structure and Physics of Solar Faculae. IV: Chromospheric Granular Structure

C. Fang, Z. Mouradian, G. Banos, S. Dumont, and J. C. Pecker **91**, 61

A Statistical Study of Active Regions 1967-1981

Frances Tang, Robert Howard, and John M. Adkins **91**, 75

Dependence of Stratospheric Temperature on the 11-Year Solar Activity Cycle?

H. Schwentek and W. Elling **91**, 181

Observations of the Reappearance of Polar Coronal Holes and the Reversal of the Polar Magnetic Field

D. F. Webb, J. M. Davis, and P. S. McIntosh **92**, 109

Evidence for the 22-Year-Cycle in the Longitudinal Distribution of Sunspots

Horst Balthasar and Manfred Schüssler **93**, 177

Sunspot Activity According to Greenwich Observations (*Invited Review Paper*)

M. Kopecký **93**, 181

Long-Term Fluctuations of Solar Activity during the Last Thousand Years

L. Křivský **93**, 189

Do Prominences Migrate Equatorwards?

V. I. Makarov **93**, 393

Solar Neutrino Data and the 11-Year Solar Activity Cycle

Probhas Raychaudhuri **93**, 397

A Possible Relationship between Spectral Bands in Sunspot Number and the Space-Time Organization of Our Planetary System

H. Schwentek and W. Elling **93**, 403

Variability of the Quiet Photospheric Network

R. Muller and Th. Roudier **94**, 33

Ca II K Bright Points and the Solar Cycle

K. R. Sivaraman **94**, 235

The Behaviour of Prominence Areas in the 11-Year-Cycle and Their Relationship with Other Solar Events

M. N. Gnevyshev and V. I. Makarov **95**, 189

Torsional Oscillations of Low Mode

Herschel B. Snodgrass and Robert Howard **95**, 221

On the R_z -Sunspot Relative Number Variations

M. R. Attolini, M. Galli, and G. Cini Castagnoli **95**, 391

The Frequency of Long-Duration Solar X-Ray Events

M. J. Koomeen, N. R. Sheeley, Jr., R. A. Howard, and D. J. Michels **97**, 375

- Simulations of the Mean Solar Magnetic Field during Solar Cycle 21
N. R. Sheeley, Jr., C. R. DeVore, and J. P. Boris 98, 219
- The Fine Structure of the Quiet Sun (*Invited Review Paper*)
R. Muller 100, 237
- Solar and Stellar Activity: The Theoretical Approach (*Invited Review Paper*)
Gaetano Belvedere 100, 363

Solar Cycle, Models

- A Rossby-Wave Dynamo for the Sun, I
Peter A. Gilman 8, 316
- A Rossby-Wave Dynamo for the Sun, II
Peter A. Gilman 9, 3
- Complexes of Activity of the Solar Cycle and Very Large Scale Convection
Hirokazu Yoshimura 18, 417
- Solar Dynamo Theory and the Models of Babcock and Leighton
J. H. Piddington 22, 3
- Large Scale Magnetic Dipole and Multipole Progressive Waves in the Photosphere
I. K. Csada 47, 555
- Phase Relation between the Poloidal and Toroidal Solar-Cycle General Magnetic Fields and Location of the Origin of the Surface Magnetic Fields
Hirokazu Yoshimura 50, 3
- Progressive Dipole Waves as the Constituents of the 22-Year Magnetic Cycle
I. K. Csada 58, 423
- Mathematical Modelling of the Sunspot Cycle
F. De Meyer 70, 259
- Theory of the Solar Cycle
Michael Stix 74, 79
- On the Non-Symmetric Solar Dynamo
I. K. Csada 74, 103
- Solar Cycle Dynamo Wave Origin of Sunspot Intensity and X-Ray Bright Point Number Variation
Hirokazu Yoshimura 87, 251
- A Nonlinear Solar Cycle Model with Potential for Forecasting on a Decadal Time Scale
D. P. Gregg 90, 185
- The Internal Magnetic Field of the Sun and Peculiarities of the Solar Activity Cycles
M. I. Pudovkin and E. E. Benevolenska 95, 381
- The Solar Dynamo (*Invited Review Paper*)
A. A. Ruzmaikin 100, 125
- Solar and Stellar Activity: The Theoretical Approach (*Invited Review Paper*)
Gaetano Belvedere 100, 363

Solar Diameter

- The Solar Diameter at 5000 Å and H α from Photoelectric Drift Scans
A. Wittmann 29, 333
- The Radio Radius of the Sun at Millimeter and Centimeter Wavelengths
Paul N. Swanson 32, 77
- Photoelectric Drift Scans. II: Time Pulse Evaluation, Limb Profiles, and the Solar Diameter
A. Wittmann 36, 65
- Interferometer Observations of the Solar Brightness Distribution at 8.6 mm Wavelength
Ikuro Suzuki, Kin-Aki Kawabata, and Hideo Ogawa 46, 205
- The Solar Radius at 35 GHz
Fred L. Wefer and Max. P. Bleiweiss 48, 77
- Solar Brightness Distribution at 3 mm Wavelength from Observations of the Eclipse of 1976 October 23
N. R. Labrum, J. W. Archer, and C. J. Smith 59, 331
- The Radius of the Sun at Centimeter Waves and the Brightness Distribution across the Disk
E. Fürst, W. Hirth, and P. Lantos 63, 257
- Solar Brightness Distribution at 8.6 mm from Interferometer Observations
K. Kawabata, M. Fujishita, T. Kato, H. Ogawa, and T. Omodaka 65, 221

- Tobias Mayer's Observations of the Sun: Evidence against a Secular Decrease of the Solar Diameter
A. Wittmann **66**, 223
- Quick Matching Technique to Study the Relationship between Solar Radius and Luminosity Variations
Sabatino Sofia and Kwing L. Chan **76**, 145
- Detection of Individual Normal Modes of Oscillation of the Sun in the Period Range from 2 hr to 10 min in Solar Diameter Studies
Randall J. Bos and Henry A. Hill **82**, 89
- On the Origin of Oscillations in a Solar Diameter Observed through the Earth's Atmosphere: A Terrestrial Atmospheric or a Solar Phenomenon
Henry A. Hill, Randall J. Bos, and Thomas P. Caudell **82**, 129
- Solar Diameter(s)
J. Rösch and R. Yerle **82**, 139
- An Estimation of the Fluctuations in the Extreme Limb of the Sun
Bruce W. Lites **85**, 193
- The Basic Equations for Scanning Heliometer Measurement of Solar Diameters
J. Rösch **96**, 213
- The Diameter of the Sun at Decameter Wavelengths
T. E. Gergely, B. D. Gross, and M. R. Kundu **99**, 323
- Solar Oblateness**
- On the Solar Oblateness: The Combined Effect of a Pole-Equator Difference in Effective Temperature and Mechanical Heating
B. R. Durney and N. E. Werner **21**, 21
- A Non Imaging Approach to Solar Oblateness Measurements
T. J. Janssens **25**, 237
- Equator-Pole Temperature Difference and the Solar Oblateness
R. W. Noyes, T. R. Ayres, and D. N. B. Hall **28**, 343
- Solar Granulation, Limb Flux, and Oblateness
Robert S. Kandel and Stephen L. Keil **33**, 3
- The Enigmatic Periodicity of the Solar Oblateness
R. H. Dicke **37**, 271
- Temperature Variation with Latitude in the Upper Solar Photosphere: Relevance to Solar Oblateness Measurements and Facular Models
Andrew P. Ingersoll and Gary A. Chapman **42**, 279
- Evidence for a Solar Distortion Rotating with a Period of 12.2 Days
R. H. Dicke **47**, 475
- The Basic Equations for Scanning Heliometer Measurement of Solar Diameters
J. Rösch **96**, 213
- Solar Precession** (*see Ephemeris*)
- Solar-Stellar Connection** (*see Stellar Physics*)
- Solar Wind**
- The Interaction of the Solar Wind with a Comet
L. Biermann, B. Brosowski, and H. U. Schmidt **1**, 254
- Micro-Scale Structures in the Interplanetary Medium
Leonard F. Burlaga **4**, 67
- The Stages of Ionization of Oxygen and Helium in the Solar Wind
Ben-Zion Kozlovsky **5**, 410
- Observations of Energetic X-Rays and Solar Cosmic Rays Associated with the 23 May 1967 Solar Flare Event
S. R. Kane and J. R. Winckler **6**, 304
- Sudden Commencement Associated Discontinuities in the Interplanetary Magnetic Field Observed by IMP 3
Harold E. Taylor **6**, 320
- Simultaneous Plasma and Magnetic-Field Measurements of Probable Tangential Discontinuities in the Solar Wind
George L. Siscoe, James M. Turner, and Alan J. Lazarus **6**, 456
- Directional Discontinuities in the Interplanetary Magnetic Field
Leonard F. Burlaga **7**, 54

Large Velocity Discontinuities in the Solar Wind

Leonard F. Burlaga 7, 72

Power Spectra of the Interplanetary Magnetic Field

James W. Sari and Norman F. Ness 8, 155 *Erratum 18, 176*

On the North-South Asymmetry in the Solar Wind

G. L. Siscoe and P. J. Coleman, Jr. 8, 415

Hydromagnetic Shocks in the Solar Wind

K. W. Ogilvie and L. F. Burlaga 8, 422 *Errata 11, 180*

Helium Abundance in the Solar Wind

K. W. Ogilvie and T. D. Wilkerson 8, 435

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. III: Sunspots and Geomagnetic Activity

J. Roosen 8, 450

Tangential Discontinuities in the Solar Wind

Leonard F. Burlaga and Norman F. Ness 9, 467

Solar Flare Alpha to Proton Ratio Changes Following Interplanetary Disturbances

L. J. Lanzerotti and M. F. Robbins 10, 212

Stability of Tangential Discontinuities

T. G. Northrop and T. J. Birmingham 14, 226

Solar Wind Event of January 2, 1970

V. Genesio-Elgarten and A. A. Joukoff 14, 234

A Study of the Composition of the Solar Corona and Solar Wind

M. P. Nakada 14, 457

Two-Dimensional Guiding-Center Model of the Solar Wind-Moon Interaction

Y. C. Whang 14, 489

Magnetic and Thermal Pressures in the Solar Wind

L. F. Burlaga and K. W. Ogilvie 15, 61

 α -Particle Observations in the Solar Wind

V. Formisano, F. Palmiotto, and G. Moreno 15, 479

The Outflow of Solar Wind from the Active Regions

G. S. Bisnovaty-Kogan and I. M. Gordon 18, 133

Cosmic Ray Modulation Produced by Radial Density Gradients in the Interplanetary Medium

L. R. Barnden 18, 165

The Helium-Enriched Interplanetary Plasma from the Proton Flares of August/September, 1966

J. Hirshberg, J. R. Asbridge, and D. E. Robbins 18, 313

Solar Flares and Solar Wind Helium Enrichments: July 1965-July 1967

J. Hirshberg, S. J. Bame, and D. E. Robbins 23, 467

Hydrogen and Helium Velocities in the Solar Wind

K. W. Ogilvie and H. J. Zwally 24, 236

Change of Solar Flare Proton to Alpha Ratios during an Energetic Storm Particle Event

M. Scholer, D. Hovestadt, and B. Häusler 24, 475

Energy Budget in Coronal Holes

Giancarlo Noci 28, 403

The Continuous Emission of Low Energy Cosmic Rays during Solar Flares

Julius Feit 29, 211

A Comparison of Theoretical and Experimental Estimates of the Solar Proton Diffusion Coefficient during Three Flare Events

S. Webb, A. Balogh, J. J. Quenby, and J. F. Sear 29, 477 *Erratum 30, 548*

Non-Thermal Solar Wind Heating by Supra-Thermal Ions

H. J. Fahr 30, 193

Variations of α -Particle Abundance in the Solar Wind

G. Moreno and F. Palmiotto 30, 207

Solar-Wind Properties at the Earth as Predicted by the Two-Fluid Model

B. R. Durney 30, 223

The Representation of the Semi-Annual Variation of the Geomagnetic Activity by an Annual Sine Wave

J. Houtgast and A. van Sluiter 31, 513

- Large-Scale Structure of the Interplanetary Medium. I: High Coronal Source Longitude of the Quiet-Time Solar Wind
J. T. Nolte and E. C. Roelof 33, 241
- Solar Wind Direction from Heos I and Explorer 33 Satellites
A. Egidi and C. Signorini 34, 247
- The Quiet Corona: Temperature and Temperature Gradient
S. J. Bame, J. R. Asbridge, C. Feldman, and P. D. Kearney 35, 137
- Abundance Differences in Solar Wind Double Streams
J. R. Asbridge, S. J. Bame, and W. C. Feldman 37, 451
- An Investigation of Some Large Directional Discontinuities in the Solar Wind Plasma Using Multisatellite Observations
S. Webb and J. J. Quenby 38, 257
- A Comment on the Detection of Closed Magnetic Structures in the Solar Wind
J. T. Gosling and E. C. Roelof 39, 405
- A New Shock Locus for Similarity Solutions in One-Dimensional Unsteady Gas Dynamics
R. E. Grundy 40, 227
- Magnetic and Thermal Energies in the Solar Wind
L. Diodato, G. Moreno, and C. Signorini 40, 231
- On Solar Wind Helium and Heavy Ion Temperatures
Joan Feynman 43, 249
- Solar Wind Heavy Ion Abundances
S. J. Bame, J. R. Asbridge, W. C. Feldman, M. D. Montgomery, and P. D. Kearney 43, 463
- Fast Solar Electrons, Interplanetary Plasma and km-Wave Type-III Radio Bursts Observed from the IMP-6 Spacecraft
Hector Alvarez, Robert P. Lin, and Samuel J. Bame 44, 485
- Electron Plasma Oscillations Associated with Type III Radio Emissions and Solar Electrons
D. A. Gurnett and L. A. Frank 45, 477
- Coronal Holes as Sources of Solar Wind
J. T. Nolte, A. S. Krieger, A. F. Timothy, R. E. Gold, E. C. Roelof, G. Vaiana, A. J. Lazarus, J. D. Sullivan, and P. S. McIntosh 46, 303 *Erratum/Replacement Figure: Fig. 2 - 53, 547*
- Key Problems in Auroral Flare Processes (*Invited Summary*)
Tatsuzo Obayashi 47, 367
- Prospectus for the Solar Maximum Year (*Invited Report*)
H. Zirin and K. Tanaka 47, 385
- Coronal Holes, Solar Wind Streams, and Recurrent Geomagnetic Disturbances: 1973-1976
N. R. Sheeley, Jr., J. W. Harvey, and W. C. Feldman 49, 271
- Energetic Properties of Interplanetary Plasma at the Earth's Orbit Following the August 4, 1972 Flare
C. D'Uston, J. M. Bosqued, F. Cambou, V. V. Temny, G. N. Zastenker, O. L. Vaisberg, and E. G. Eroshenko 51, 217
- Study of Alpha Component Dynamics in the Solar Wind Using the Prognos Satellite
J. M. Bosqued, C. D'Uston, A. A. Zertalov, and O. L. Vaisberg 51, 231
- On Coronal Temperatures, Temperature Gradients and Compositions
M. P. Nakada 51, 327
- High Coronal Structure of High Velocity Solar Wind Stream Sources
J. T. Nolte, A. S. Krieger, E. C. Roelof, and R. E. Gold 51, 459
- Probability Distribution Functions of Microscale Magnetic Fluctuations during Quiet Conditions
Y. C. Whang 53, 507
- Analysis of the Complex Solar Particle Event on April 29-30, 1973
T. Gombosi, J. Kóta, A. J. Somogyi, V. G. Kurt, B. M. Kuzhevskii, and Yu. I. Logachev 54, 441
- A Survey of Coronal Holes and Their Solar Wind Associations throughout Sunspot Cycle 20
R. M. Broussard, N. R. Sheeley, Jr., R. Tousey, and J. H. Underwood 56, 161
- Local Instabilities of Alfvén Waves in High Speed Streams
B. Bavassano, M. Dobrowolny, and G. Moreno 57, 445
- Coronal Holes, Solar Wind Streams, and Geomagnetic Activity during the New Sunspot Cycle
N. R. Sheeley, Jr. and J. W. Harvey 59, 159
- Solar Wind Stream Structure during the Early Phase of the Solar Cycles 20 and 21
J. T. Nolte, J. M. Davis, and J. D. Sullivan 60, 207

- Pioneer-10 Observation of the Solar Wind Proton Temperature Heliocentric Gradient
J. D. Mihalov and J. H. Wolfe 60, 399
- Solar Wind Heavy Ions from Flare-Heated Coronal Plasma
S. J. Bame, J. R. Asbridge, W. C. Feldman, E. E. Fenimore, and J. T. Gosling 62, 179
- Magnetic Dips in the Solar Wind
M. Dobrowolny, B. Bavassano, F. Mariani, and N. Ness 62, 203
- Relation between Superheating and Superacceleration of Helium in the Solar Wind
M. M. Neugebauer and W. C. Feldman 63, 201
- Energetic Particles in Space
R. P. Lin 67, 393
- Plasma Acceleration by Ion-Acoustic Turbulence
V. Krishan 68, 343
- Correlated Variations of Planetary Albedos and Coincident Solar-Interplanetary Variations
Steven T. Suess and G. W. Lockwood 68, 393
- Ten Cycles of Solar and Geomagnetic Activity
J. P. Legrand and P. A. Simon 70, 173
- Coronal Holes, Solar Wind Streams, and Geomagnetic Disturbances during 1978 and 1979
N. R. Sheeley, Jr. and J. W. Harvey 70, 237
- Are Solar Flares a Result of a Sudden Conversion of Magnetic Energy Stored Prior to Their Onset?
S.-I. Akasofu 71, 107
- Passage of the Solar Current Disk and Major Geomagnetic Storms
S.-I. Akasofu 71, 175
- Energy Balance of the Corona and the Origin of Quasi-Stationary High-Speed Solar Wind Streams
V. A. Kovalenko 73, 383
- Preferred Bartels Days of High-Speed Plasma Streams in the Solar Wind
B. A. Lindblad 74, 187
- A Catalogue of High-Speed Plasma Streams in the Solar Wind
B. A. Lindblad and H. Lundstedt 74, 197
- Coronal Holes: Mass Loss Driven by Magnetic Reconnection
D. J. Mullan and I. A. Ahmad 75, 347
- Correlation of High Latitude Coronal Holes with Solar Wind Streams far above or below the Ecliptic
Kile B. Baker and Michael D. Papagiannis 78, 365
- Statistical Properties of MHD Fluctuations Associated with High Speed Streams from Helios-2 Observations
B. Bavassano, M. Dobrowolny, G. Fanfoni, F. Mariani, and N. F. Ness 78, 373
- Fundamental Emission for Type III Bursts in the Interplanetary Medium: The Role of Ion-Sound Turbulence
D. B. Melrose 79, 173
- Transient Response of the Solar Wind to Changes in Flow Geometry. Flows in Coronal Holes
S. S. Hasan and P. Venkatakrishnan 80, 385
- Magnetic Clouds: Voyager Observations between 2 and 4 AU
L. F. Burlaga and K. W. Behannon 81, 181
- Influence of Solar Wind Variability on the Recurrence of Droughts
P. Venkatakrishnan 81, 193
- The Radial Evolution of the IMF Fluctuations: A Comparison with Theoretical Models
U. Villante and M. Vellante 81, 367
- Cosmic Ray Intensity Variations and Two Types of High-Speed Solar Streams
D. Venkatesan, A. K. Shukla, and S. P. Agrawal 81, 375
- Study on the Onsets of Solar Energetic Electron Events
E. T. Sarris, P. C. Trochoutsos, and G. C. Anagnostopoulos 83, 51
- A Statistical Study of MHD Discontinuities in the Inner Solar System: Helios 1 and 2
F. Mariani, B. Bavassano, and U. Villante 83, 349
- Helium Abundance Variations in the Solar Wind
G. Borrini, J. T. Gosling, S. J. Bame, and W. C. Feldman 83, 367
- Momentum Flux Invariance and Solar Wind Sources
Raphael Steinitz 83, 379
- Flow-Tube Dynamics and Coronal Holes
D. Summers 85, 93

- Preferred Longitudes of Sunspot Groups and High-Speed Solar Wind Streams: Evidence for a 'Solar Memory'
 Horst Balthasar and Manfred Schussler **87**, 23
- Determination of Solar Wind Elemental Abundances from M/Q Observations during Three Period in 1980
 S. Kunz, P. Bochsler, J. Geiss, K. W. Ogilvie, and M. A. Coplan **88**, 359
- A Catalogue of High-Speed Plasma Streams in the Solar Wind 1975-78
 B. A. Lindblad and H. Lundstedt **88**, 377
- Are Interplanetary Magnetic Clouds Manifestations of Coronal Transients at 1 AU?
 Robert M. Wilson and Ernest Hildner **91**, 169
- Interpretation of ^3He Abundance Variations in the Solar Wind
 M. A. Coplan, K. W. Ogilvie, P. Bochsler, and J. Geiss **93**, 415
- Geomagnetic Disturbances Associated with Disappearing Solar Filaments
 J. Hanumath Sastri, K. B. Ramesh, and J. V. S. V. Rao **98**, 177
- The Solar Wind (*Invited Review Paper*)
 W. I. Axford **100**, 575

Solar Wind, Abundances (*see Solar Wind; Abundances*)

Solar Wind, Discontinuities (*see Solar Wind*)

Solar Wind, Dynamics (*see Velocity Fields, Solar Wind*)

Solar Wind, Flare-Associated Disturbances

- Reconnection of Magnetic Field of Active Regions by the Interaction of Their Extensions in Interplanetary Space
 S. Gopasyuk and L. Křivský **1**, 145 *Corrigendum 1*, 504
- Singular Variations near the Contact Discontinuity in the Theory of Interplanetary Blast Waves
 T. S. Lee and W. W. Balwanz **4**, 240
- Effects Associated with the Sector Boundary Crossing on July 8, 1966
 Z. Švestka **4**, 361
- On the Gas Flow Due to Solar Flares
 V. P. Korobeinikov **7**, 463
- Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461
 (*Invited Review Paper*)
 Z. Švestka and P. Simon **10**, 3
- Neutron Monitor and Pioneer 6 and 7 Studies of the January 28, 1967 Solar Flare Event
 R. P. Bukata, P. T. Gronstal, R. A. R. Palmeira, K. G. McCracken, and U. R. Rao **10**, 198
- Solar Flare Alpha to Proton Ratio Changes Following Interplanetary Disturbances
 L. J. Lanzerotti and M. F. Robbins **10**, 212
- Solar Wind Event of January 2, 1970
 V. Genesio-Elgarten and A. A. Joukoff **14**, 234
- The Emission and Propagation of ~ 40 keV Solar Flare Electrons. II: The Electron Emission Structure of Large Active Regions
 R. P. Lin **15**, 453
- The Decay Phase of Solar Flare Events
 K. G. McCracken, U. R. Rao, R. P. Bukata, and E. P. Keath **18**, 100
- The Helium-Enriched Interplanetary Plasma from the Proton Flares of August/September, 1966
 J. Hirshberg, J. R. Asbridge, and D. E. Robbins **18**, 313
- The Anomalous Distribution in Heliocentric Longitude of Solar Injected Cosmic Radiation
 E. P. Keath, R. P. Bukata, K. G. McCracken, and U. R. Rao **18**, 503
- Anisotropy Characteristics of Low Energy Cosmic Ray Population of Solar Origin
 U. R. Rao, K. G. McCracken, F. R. Allum, R. A. R. Palmeira, W. C. Bartley, and I. Palmer **19**, 209
- Propagation of Low Energy Protons Associated with the 24 January 1969 Solar Flare
 A. Balogh, P. C. Hedgecock, R. J. Hynds, and J. Sear **20**, 150
- Solar Flares and Solar Wind Helium Enrichments: July 1965-July 1967
 J. Hirshberg, S. J. Bame, and D. E. Robbins **23**, 467
- Shock Wave Effects in Solar Cosmic Ray Events
 I. D. Palmer **27**, 466
- A Comparison of Theoretical and Experimental Estimates of the Solar Proton Diffusion Coefficient during Three Flare Events
 S. Webb, A. Balogh, J. J. Quenby, and J. F. Sear **29**, 477 *Erratum 30*, 548

- Large-Scale Structure of the Interplanetary Medium. II: Evolving Magnetic Configurations Deduced from Multi-Spacecraft Observations
J. T. Nolte and E. C. Roelof 33, 483
- Effect of Solar Corona Conditions on Flare Particle Propagation
G. Cherki, J. P. Mercier, A. Raviart, L. Treguer, D. Maccagni, F. Perotti, and G. Villa 34, 223
- A Probable Mean Transit Time of the Flare-Generated Disturbances
Ioan Niță 36, 145
- Intensities and Anisotropies of Low Energy Solar Protons Measured Aboard the Satellites Azur, Explorer 35 and 41, November 1969-April 1970
E. Kirsch and J. W. Münch 39, 459
- Direct Observations of a Flare Related Coronal and Solar Wind Disturbance
J. T. Gosling, E. Hildner, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 40, 439
- Monte Carlo Model of the Highly Anisotropic Solar Proton Event of 20 April 1971
I. D. Palmer, R. A. R. Palmeira, and F. R. Allum 40, 449
- Disturbances in the Solar Wind from IPS Measurements in August 1972
B. J. Rickett 43, 237
- Simulation of Solar Flare Particle Interaction with Interplanetary Shock Waves
M. Scholer and G. Morfill 45, 227
- Electron Plasma Oscillations Associated with Type III Radio Emissions and Solar Electrons
D. A. Gurnett and L. A. Frank 45, 477
- A Complete Model of the Propagation of Solar-Flare Cosmic Rays
C. K. Ng and L. J. Gleeson 46, 347
- Cooperation with the SCOSTEP Project: Study of Travelling Interplanetary Phenomena (STIP)
M. Dryer and M. A. Shea 47, 413
- Interplanetary Disturbances in the Solar Wind Produced by Density, Temperature, or Velocity Pulses at 0.08 AU
S. T. Wu, Murray Dryer, and S. M. Han 49, 187
- Observation of Temporal and Spatial Variations in the Fe/O Charge Composition of the Solar Particle Event of 4 July, 1974
T. P. Armstrong, S. M. Krimigis, D. Hovestadt, B. Klecker, and G. Gloeckler 49, 395
- Energetic Properties of Interplanetary Plasma at the Earth's Orbit Following the August 4, 1972 Flare
C. D'Uston, J. M. Bosqued, F. Cambou, V. V. Temny, G. N. Zastenker, O. L. Vaisberg, and E. G. Eroshenko 51, 217
- Coherent Propagation of Non-Relativistic Solar Electrons
V. G. Kurt, Yu. I. Logachev, and N. F. Pissarenko 53, 157
- The Structure of the Solar Flare Stream Magnetic Field
M. I. Pudovkin, S. A. Zaitseva, I. P. Oleferenko, and A. D. Chertkov 54, 155
- Influence of Finite Injections and of Interplanetary Propagation on Time-Intensity and Time-Anisotropy Profiles of Solar Cosmic Rays
B. M. Schulze, A. K. Richter, and G. Wibberenz 54, 207
- Analysis of the Complex Solar Particle Event on April 29-30, 1973
T. Gombosi, J. Kóta, A. J. Somogyi, V. G. Kurt, B. M. Kuzhevskii, and Yu. I. Logachev 54, 441
- Enhancement of Solar Heavy Nuclei at High Energies in the 4 July 1974 Event
D. L. Bertsch and D. V. Reames 55, 491
- The August 1972 Cosmic Ray Storm. North-South Anisotropies and Related Phenomena
A. Geranios 58, 201
- Solar Wind Heavy Ions from Flare-Heated Coronal Plasma
S. J. Bame, J. R. Asbridge, W. C. Feldman, E. E. Fenimore, and J. T. Gosling 62, 179
- Particle Trapping and Acceleration during the August 1972 Event
X. Moussas 67, 163
- Geometrical Relationship of Flare-Generated Solar Wind Structures to the Magnetic Axes of Bipolar Sunspot Groups Adjacent to Their Originating Solar Flares
K. G. Ivanov, L. V. Evdokimova, and N. V. Mikerina 79, 379
- A Study of the Modulating Effect of Solar Flares on the Cosmic Ray Intensity Using Time Series Analysis
G. A. Bowe and C. J. Hatton 80, 351
- Non-Planar MHD Model for Solar Flare-Generated Disturbances in the Heliospheric Equatorial Plane
S. T. Wu, M. Dryer, and S. M. Han 84, 395

Dynamics of Hydromagnetic Clouds from Powerful Solar Flares

K. G. Ivanov and A. F. Harshiladze **92**, 351

On the E-W Asymmetry and the Generation of ESP Events

E. T. Sarris, G. C. Anagnostopoulos, and P. C. Trochoutsos **93**, 195

Helios Observations of the Earthward-Directed Mass Ejection of 27 November, 1979

B. V. Jackson **95**, 363

Dependence of the Flare Stream Velocity on Magnetic Field Orientation

M. I. Pudovkin, S. A. Zaitseva, and S. P. Puchenkina **95**, 371

Multispacecraft Observations of the East-West Asymmetry of Solar Energetic Storm Particle Events

E. T. Sarris and S. M. Krimigis **96**, 413

Interplanetary Hydromagnetic Clouds as Flare-Generated Spheromaks

K. G. Ivanov and A. F. Harshiladze **98**, 379

Solar Wind, Interaction with Earth, Moon, Planets, Comets (*see Solar Wind*)

Solar Wind, Magnetic Fields (*see Magnetic Fields, Interplanetary*)

Solar Wind, Models
On the Stability of the Solar Wind

Klaus Jockers **3**, 603

Convergent Solutions of the Inviscid Solar Wind Equations

Thomas J. Eisler **7**, 46

Asymptotic Solutions of the Viscous Solar Wind Equations

Thomas J. Eisler **7**, 49

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. I: The Quiet Component of the 9.1-cm Emission and the 'M-Regions'

J. Roosen **7**, 448

The Effect of Finite Electrical Conductivity on the Angular-Momentum Loss of the Sun Due to the Solar Wind

E. J. Weber **7**, 470

Corotating Structure in the Solar Wind

R. L. Carovillano and G. L. Siscoe **8**, 401

Note on the Solar Wind-Induced Drag on Comets

Douglas E. Gonzales **9**, 205

A Model of the Magnetized Solar Wind

I. H. Urch **10**, 219

Fluid Dynamics of Thin Solar Wind Filaments

G. L. Siscoe **13**, 490

Unique Solutions of Solar Wind Models with Thermal Conductivity

E. J. Weber **14**, 480

Gas-Magnetic Field Interactions in the Solar Corona

G. W. Pneuman and Roger A. Kopp **18**, 258

Critical Point Regularity Conditions and Asymptotic Solutions to the Time Stationary, Linearized, Inhomogeneous Solar Wind Flow Problem

G. L. Siscoe and R. L. Carovillano **23**, 211

A Two-Fluid Solar Wind Model with Anisotropic Proton Temperature

E. Leer and W. I. Axford **23**, 238

Solar Wind Density Model from km-Wave Type III Bursts

Hector Alvarez and F. T. Haddock **29**, 197

Restrictions on Radial Magnetic Field and Flow Solutions for the Solar Wind

M. S. Gussenhoven and R. L. Carovillano **29**, 233

Solar-Wind Properties at the Earth as Predicted by the Two-Fluid Model

B. R. Durney **30**, 223

Numerical Studies of Azimuthal Modulations of the Solar Wind with Magnetic Fields

Y. Nakagawa and R. E. Wellck **32**, 257

The Influence of Non-Uniform Solar Wind Expansion on the Angular Momentum Loss from the Sun

E. R. Priest and G. W. Pneuman **34**, 231

- An Investigation of Some Large Directional Discontinuities in the Solar Wind Plasma Using Multisatellite Observations
S. Webb and J. J. Quenby 38, 257
- Solar-Interplanetary Modeling: 3-D Solar Wind Solutions in Prescribed Non-Radial Magnetic Field Geometries
B. R. Durney and G. W. Pneuman 40, 461
- The Solar Elongation Distribution of Low-Frequency Radio Bursts
M. L. Kaiser 45, 181
- Interplanetary Disturbances in the Solar Wind Produced by Density, Temperature, or Velocity Pulses at 0.08 AU
S. T. Wu, Murray Dryer, and S. M. Han 49, 187
- On the Collisional Theory of the Anisotropic Solar Wind Plasma
D. Summers 56, 429
- Pioneer-10 Observation of the Solar Wind Proton Temperature Heliocentric Gradient
J. D. Mihalov and J. H. Wolfe 60, 399
- A Semi-Analytical Approach to Time-Dependent Coronal Expansion
Roger A. Kopp 68, 307
- Solutions of the Two-Fluid Solar Wind Equations: Adiabatic and Conduction Dominated Solutions
D. P. Rowse and I. W. Roxburgh 74, 169
- Microinstabilities and Models of the Solar Wind
D. P. Rowse, I. W. Roxburgh, and S. J. Schwartz 74, 179
- Transient Response of the Solar Wind to Changes in Flow Geometry. Flows in Coronal Holes
S. S. Hasan and P. Venkatakrishnan 80, 385
- Expansion of the Solar Wind from a Two-Hole Corona
Y. C. Whang 88, 343
- Solar Radio Burst and *in situ* Determination of Interplanetary Electron Density
J.-L. Bougeret, J. H. King, and R. Schween 90, 401
- The Solar Wind (*Invited Review Paper*)
W. I. Axford 100, 575
- Solar Wind, Sector Structure** (*see Magnetic Fields, Interplanetary Sector Structure*;
- Solar Wind, Shock Waves**
- The Interaction of the Solar Wind with a Comet
L. Biermann, B. Brosowski, and H. U. Schmidt 1, 254
- Singular Variations near the Contact Discontinuity in the Theory of Interplanetary Blast Waves
T. S. Lee and W. W. Balwanz 4, 240
- Observations of Energetic X-Rays and Solar Cosmic Rays Associated with the 23 May 1967 Solar Flare Event
S. R. Kane and J. R. Winckler 6, 304
- Sudden Commencement Associated Discontinuities in the Interplanetary Magnetic Field Observed by IMP 3
Harold E. Taylor 6, 320
- On the Gas Flow Due to Solar Flares
V. P. Korobeinikov 7, 463
- Hydromagnetic Shocks in the Solar Wind
K. W. Ogilvie and L. F. Burlaga 8, 422 *Errata II, 180*
- Note on the Solar Wind-Induced Drag on Comets
Douglas E. Gonzales 9, 205
- Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 (*Invited Review Paper*)
Z. Švestka and P. Simon 10, 3
- Interplanetary Shock Observations by Mariner 5 and Explorer 34
A. J. Lazarus, K. W. Ogilvie, and L. F. Burlaga 13, 232
- α -Particle Observations in the Solar Wind
V. Formisano, F. Palmiotto, and G. Moreno 15, 479
- The Effect of Alfvén Waves on MHD Fast Shocks
M. Scholer and J. W. Belcher 16, 472
- Observation of Solar Wind Heavy Ions
M. B. Cattaneo, V. Formisano, G. Moreno, F. Palmiotto, F. Palutan, and P. Saraceno 17, 468

- Low-Energy Proton Increases Associated with Interplanetary Shock Waves
R. A. R. Palmeira, F. R. Allum, and U. R. Rao **21**, 204
- Hydrogen and Helium Velocities in the Solar Wind
K. W. Ogilvie and H. J. Zwally **24**, 236
- Shock Wave Effects in Solar Cosmic Ray Events
I. D. Palmer **27**, 466
- Solar Wind Interaction with Comet Bennett (1969i)
L. F. Burlaga, J. Rahe, B. Donn, and M. Neugebauer **30**, 211
- Evidence for Confinement of Low-Energy Cosmic Rays Ahead of Interplanetary Shock Waves
R. A. R. Palmeira and F. R. Allum **30**, 243
- Reply to 'Shock Wave Effects in Solar Cosmic Ray Events' by I. D. Palmer
S. W. Kahler **33**, 239
- Shock Waves Generated by the Intense Solar Flare of 1972, August 7, 15:00 UT
A. Maxwell and R. Rinehart **37**, 437
- Phenomenology of the Subflare: A Synthesis of CINO F
C. de Jager **40**, 133
- Direct Observations of a Flare Related Coronal and Solar Wind Disturbance
J. T. Gosling, E. Hildner, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross **40**, 439
- Simulation of Solar Flare Particle Interaction with Interplanetary Shock Waves
M. Scholer and G. Morfill **45**, 227
- Kilometric Type III Burst Enhancements Associated with Interplanetary Shocks
Nicholas Dunckel **46**, 461
- Cooperation with the SCOSTEP Project: Study of Travelling Interplanetary Phenomena (STIP)
M. Dryer and M. A. Shea **47**, 413
- Interplanetary Disturbances in the Solar Wind Produced by Density, Temperature, or Velocity Pulses at 0.08 AU
S. T. Wu, Murray Dryer, and S. M. Han **49**, 187
- Non-Thermal Processes in Large Solar Flares
R. P. Lin and H. S. Hudson **50**, 153
- Shock Waves and Type II Radiobursts in the Interplanetary Medium
A. Boischoit, A. C. Riddle, J. B. Pearce, and J. W. Warwick **65**, 397
- Particle Trapping and Acceleration during the August 1972 Event
X. Moussas **67**, 163
- Energetic Particles in Space
R. P. Lin **67**, 393
- Type II Solar Radio Events Observed in the Interplanetary Medium. I: General Characteristics
H. V. Cane, R. G. Stone, J. Fainberg, J. L. Steinberg, and S. Hoang **78**, 187
- Geometrical Relationship of Flare-Generated Solar Wind Structures to the Magnetic Axes of Bipolar Sunspot Groups Adjacent to Their Originating Solar Flares
K. G. Ivanov, L. V. Evdokimova, and N. V. Mikerina **79**, 379
- A Large Proton Event Associated with Solar Filament Activity
B. Sanahuja, V. Domingo, K.-P. Wenzel, J. A. Joselyn, and E. Keppler **84**, 321
- Non-Planar MHD Model for Solar Flare-Generated Disturbances in the Heliospheric Equatorial Plane
S. T. Wu, M. Dryer, and S. M. Han **84**, 395
- The GLE-Associated Flare of 21 August, 1979
E. W. Cliver, S. W. Kahler, H. V. Cane, M. J. Koomen, D. J. Michels, R. A. Howard, and N. R. Sheeley, Jr. **89**, 181
- Are Interplanetary Magnetic Clouds Manifestations of Coronal Transients at 1 AU?
Robert M. Wilson and Ernest Hildner **91**, 169
- On the E-W Asymmetry and the Generation of ESP Events
E. T. Sarris, G. C. Anagnostopoulos, and P. C. Trochoutsos **93**, 195
- Multispacecraft Observations of the East-West Asymmetry of Solar Energetic Storm Particle Events
E. T. Sarris and S. M. Krimigis **96**, 413
- The Solar Wind (*Invited Review Paper*)
W. I. Axford **100**, 575

Solar Wind, Spectrum (*see Solar Wind*)**Solar Wind, Streams** (*see Velocity Fields, Solar Wind*)**Solar Wind, Theory****Singular Variations near the Contact Discontinuity in the Theory of Interplanetary Blast Waves**

T. S. Lee and W. W. Balwanz 4, 240

The Stages of Ionization of Oxygen and Helium in the Solar Wind

Ben-Zion Kozlovsky 5, 410

Directional Discontinuities in the Interplanetary Magnetic Field

Leonard F. Burlaga 7, 54

Note on the Solar Wind-Induced Drag on Comets

Douglas E. Gonzales 9, 205

Meridional (North-South) Motions of the Solar Wind

G. L. Siscoe and L. T. Finley 9, 452

Tangential Discontinuities in the Solar Wind

Leonard F. Burlaga and Norman F. Ness 9, 467

Radial Gradients and Anisotropies of Cosmic Rays in the Interplanetary Medium

L. A. Fisk and W. I. Axford 12, 304

On Acceleration and Motion of Ions in Corona and Solar Wind

Johannes Geiss, Peter Hirt, and Heinrich Leutwyler 12, 458

The Torque on the Interplanetary Plasma Due to Its Anisotropy

E. J. Weber 13, 240

Stability of Tangential Discontinuities

T. G. Northrop and T. J. Birmingham 14, 226

A Study of the Composition of the Solar Corona and Solar Wind

M. P. Nakada 14, 457

Two-Dimensional Guiding-Center Model of the Solar Wind-Moon Interaction

Y. C. Whang 14, 489

The Effect of a Bounded Interplanetary Diffusion Medium on the Propagation of Solar Flare Cosmic Rays

Julius Feit 17, 473

Thermal Properties of the Solar Wind Plasma

Tsutomu Toichi 18, 150

The Propagation of Solar Cosmic-Ray Bursts

C. K. Ng and L. J. Glesson 20, 166

Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind

S. Grzędzielski 21, 225

On Neutral Sheets in the Solar Wind

G. W. Pneuman 23, 223

Shock Wave Effects in Solar Cosmic Ray Events

I. D. Palmer 27, 466

The Asymptotic Behavior of the Supersonic Solutions of the Two-Fluid Solar Wind Equations

I. W. Roxburgh 27, 478

The Solar Wind and the Temperature-Density Structure of the Solar Corona

G. W. Pneuman 28, 247

Decay Time of Type III Solar Bursts Observed at Kilometric Wavelengths

Hector Alvarez and F. T. Haddock 30, 175

Non-Thermal Solar Wind Heating by Supra-Thermal Ions

H. J. Fahr 30, 193

Large-Scale Structure of the Interplanetary Medium. I: High Coronal Source Longitude of the Quiet-Time Solar Wind

J. T. Nolte and E. C. Roelof 33, 241

Large-Scale Structure of the Interplanetary Medium. II: Evolving Magnetic Configurations Deduced from Multi-Spacecraft Observations

J. T. Nolte and E. C. Roelof 33, 483

A Note on the Solution of the Saturation Flux Limited Solar Wind EquationsIan W. Roxburgh **35**, 481**Comments on 'Solar Polar Spindown', by Kenneth Schatten**Peter A. Gilman **36**, 61**Solar Wind: The Quasi-Radial Approximation and Its Limitations**S. T. Suess and S. F. Nerney **40**, 487**On the Effect of Latitude Dependent Base Conditions on the Structure of the Solar Wind**I. W. Roxburgh and C. Singer **41**, 241**Simulation of Solar Flare Particle Interaction with Interplanetary Shock Waves**M. Scholer and G. Morfill **45**, 227**Meridional Flow in the Solar Wind in the Presence of Latitudinally Dependent Boundary Conditions**S. F. Nerney and S. T. Suess **45**, 255**Study of Alpha Component Dynamics in the Solar Wind Using the Prognostic Satellite**J. M. Bosqued, C. D'Uston, A. A. Zertalov, and O. L. Vaisberg **51**, 231**High Coronal Structure of High Velocity Solar Wind Stream Sources**J. T. Nolte, A. S. Krieger, E. C. Roelof, and R. E. Gold **51**, 459**Regulation of Solar Wind Heat Flux by Ordinary Mode Instability**G. S. Lakhina **52**, 153**Solar Wind Heating by Heat Conduction Driven Ion Acoustic Instability**P. Revathy and G. S. Lakhina **52**, 471**Influence of Finite Injections and of Interplanetary Propagation on Time-Intensity and Time-Anisotropy Profiles of Solar Cosmic Rays**B. M. Schulze, A. K. Richter, and G. Wibberenz **54**, 207**A Sheet-Current Approach to Coronal-Interplanetary Modeling**Tyan Yeh and G. W. Pneuman **54**, 419**Solar Particle Propagation from 1 to 5 AU**R. D. Zwickl and W. R. Webber **54**, 457**Thermally Conductive Flows in Coronal Holes**R. S. Steinolfson and E. Tandberg-Hanssen **55**, 99**Nonrelativistic Electron Stream Propagation in the Solar Atmosphere and Type III Radio Bursts**G. R. Magelssen and D. F. Smith **55**, 211**Subsonic Flows in the Coronal-Interplanetary Regions of Closed Field Lines**Tyan Yeh **55**, 241**Local Instabilities of Alfvén Waves in High Speed Streams**B. Bavassano, M. Dobrowolny, and G. Moreno **57**, 445**Ion Cyclotron Instability in the Solar Wind**G. S. Lakhina **57**, 467**Heating and Acceleration of α -Particles in the Solar Wind**P. Revathy **58**, 397**Stability of the Ordinary Mode to an Electron Heat Flux**Don S. Lemons, William C. Feldman, and S. Peter Gary **59**, 387**Average Photospheric Poloidal and Toroidal Magnetic Field Components near Solar Minimum**Thomas L. Duvall, Jr., Philip H. Scherrer, Leif Svalgaard, and John M. Wilcox **61**, 233**Magnetic Dips in the Solar Wind**M. Dobrowolny, B. Bavassano, F. Mariani, and N. Ness **62**, 203**Constraints on the Solar Coronal Temperature in Regions of Open Magnetic Field**Egil Leer and Thomas E. Holzer **63**, 143**Relation between Superheating and Superacceleration of Helium in the Solar Wind**M. M. Neugebauer and W. C. Feldman **63**, 201**Energetic Solar Particle Events in a Stream-Structured Solar Wind**M. Scholer, G. Morfill, and A. K. Richter **64**, 391**Particle Trapping and Acceleration during the August 1972 Event**X. Moussas **67**, 163**Ion Acoustic Instability in the Presence of Plasma Turbulence in the Solar Wind**P. Revathy and S. R. Prabhakaran Nayar **79**, 187

On Interplanetary Electric and Magnetic Fields

I. I. Alexeev, A. P. Kropotkin, and I. S. Veselovsky 79, 385

Numerical Simulation of the Weak Turbulence Excited by a Beam of Electrons in the Interplanetary Plasma

R. J.-M. Grogard 81, 173

The Radial Evolution of the IMF Fluctuations: A Comparison with Theoretical Models

U. Villante and M. Vellante 81, 367

Non-Planar MHD Model for Solar Flare-Generated Disturbances in the Heliospheric Equatorial Plane

S. T. Wu, M. Dryer, and S. M. Han 84, 395

Mean Free Paths and Diffusion Coefficients for Energetic Protons at Small Helioidistances Calculated Using Helios 1 and 2 Data

J. F. Valdés Galicia, X. Moussas, J. J. Quenby, F. M. Neubauer, and R. Schween 91, 399

Dynamics of Hydromagnetic Clouds from Powerful Solar Flares

K. G. Ivanov and A. F. Harshiladze 92, 351

Dependence of the Flare Stream Velocity on Magnetic Field Orientation

M. I. Pudovkin, S. A. Zaitseva, and S. P. Puchenkina 95, 371

Quenching of the Beam-Plasma Instability by Large-Scale Density Fluctuations in 3 Dimensions

L. Muschietti, M. V. Goldman, and D. Newman 96, 181

Interplanetary Hydromagnetic Clouds as Flare-Generated Spheromaks

K. G. Ivanov and A. F. Harshiladze 98, 379

Spectral Line

Effects of Line Blanketing on the Solar Windows

Duane Carbon, Owen Gingerich, and Robert Kurucz 3, 55

Absolute Wavelengths of Fraunhofer Lines: Convective Motions in the Solar Photosphere and the Gravitational Red Shift

D. L. Lambert and E. A. Mallia 3, 499

Power Spectra of H α Doppler Shifts

Ian Elliott 6, 28

The Photospheric Abundance of Iron

George L. Withbroe 9, 19

Gas-Pressure and Pressure-Stratification in the Sunspot

H. Ruhm 10, 104

Depth-Dependent Line Blanketing by Neutral and Ionized Metals in a Homogeneous Model Solar Photosphere

Thomas E. Margrave, Jr. 11, 22

Spectroscopic Determinations of Solar Rotation

Robert Howard and J. Harvey 12, 23

Velocity Effects on the Profiles of H α and Two Fe I Lines

R. G. Athay 12, 175

Semi-Empirical Solar Line Blanketing. I: Statistical Basis and Method

J. P. Mutschlechner and Charles F. Keller 14, 294

Transformation of the Absolute Solar Radiation Data into the 'International Practical Temperature Scale of 1968'

Dietrich Labs and Heinz Neckel 15, 79

On Equivalent Widths in a Penumbra Spectrum (A Test of the Moe-Maltby Model)

H. Schleicher and E. H. Schröter 17, 31

Isotopes of Magnesium in the Solar Atmosphere

R. Boyer, J. C. Henoux, and P. Sotirovski 19, 330

Remarks on the Convergency of Photospheric Model Conceptions and the Solar Quasi Continuum

Dietrich Labs and Heinz Neckel 22, 64

Semi-Empirical Solar Line Blanketing. II: The Results of Blanketing in Solar Model Atmospheres

J. P. Mutschlechner and Charles F. Keller 22, 70

Microturbulence and the Effect of Departures from LTE on Photospheric Iron Lines

H. Holweger 30, 35

A Preliminary Theoretical Line-Blanketed Model Solar Photosphere

Robert L. Kurucz 34, 17

Studies of Granular Velocities. IV: Statistical Analysis of Granular Doppler-Shifts

W. Mattig and A. Nesis 36, 3

On the Broadening and Shift of Spectral LinesWalter van Rensbergen, Elise de Doncker, and Ghislain Deridder **40**, 303**The Brightness of the Helium D₃ Line in the Undisturbed Chromosphere from Eclipse Observations**R. A. Gulyaev **44**, 25**Dynamical Implications of Si IV Line Profiles from OSO-8 Observations**Donald E. Billings, Robert Roussel-Dupré, and Michael H. Francis **55**, 287**The Last Observable Line in Hydrogen Emission Spectrum**L. N. Kurochka and L. B. Ribko **57**, 319**Some Comments on the Limb Shift of Solar Lines. I: The Effect of Pressure Shifts on Iron Lines in the Solar Atmosphere**Jacques M. Beckers and Paul de Vegvar **58**, 7**Some Comments on the Limb Shift of Solar Lines. II: The Effect of Granular Motions**Jacques M. Beckers and George Driver Nelson **58**, 243**The Influence of Spectral Resolution on Line Blending and Wavelength Positions in the Solar UV Spectrum**A. Greve and C. D. McKeith **65**, 405**Solar Rotation Measurements at Mount Wilson. I: Analysis and Instrumental Effects**Robert Howard, John E. Boyden, and Barry J. LaBonte **66**, 167**Solar Gravitational Redshift**James C. LoPresto, Robert D. Chapman, and Elizabeth A. Sturgis **66**, 245**Some Comments on the Limb Shift of Solar Lines. III: Variation of Limb Shift with Solar Latitude, across Plages, and across Supergranules**Jacques M. Beckers and William R. Taylor **68**, 41**Empirical Limb Effect Curves for the Fe I Lines λ 5250 and λ 5576**David H. Bruning **71**, 233 *Erratum* 76, 199**Evidence of Redshifts in the Average Solar Line Profiles of C IV and Si IV from OSO-8 Observations**D. Roussel-Dupré and R. A. Shine **77**, 329**On the Centre-to-Limb Variation and Latitude Dependence of the Asymmetry and Wavelength Shift of the Solar Line λ 5576**P. N. Brandt and E. H. Schröter **79**, 3**Polarization in Spectral Lines. II: A Classification Scheme for Solar Observations**E. Landi Degl'Innocenti **85**, 33 *Erratum* 88, 391**Origin of the Weakening of EUV Emission Lines Formed in the Chromosphere-Corona Transition Zone**Takara Nishikawa **85**, 65**On the Interpretation of Fraunhofer Line Doppler Shifts at Supergranule Boundaries**P. Miller, P. Foukal, and S. Keil **92**, 33**Limb Effect of Solar Absorption Lines. Observational Method and Results for Fe I 557.6 nm**B. N. Andersen **94**, 49**Solar Line Blocking for Disk-Center and Disk-Average Radiation from 3300 to 6860 Å**Heinz Neckel and Dietrich Labs **95**, 229**Spectral Line, Asymmetries** (*see Spectral Line, Profiles*)**Spectral Line, Blanketing** (*see Spectral Line*)**Spectral Line, Broadening****Effect of Progressive Alfvén Waves on the Profiles of Solar Spectral Lines**P. Maltby **5**, 3**Determination of Electron Density in Plasma by the Number of the Extreme Resolved Line**L. N. Kurochka and L. B. Maslennikova **11**, 33**Solar C II Resonance Line Profiles**R. A. Berger, E. C. Bruner, Jr., and R. J. Stevens **12**, 370**Zeeman Splitting of Molecular Lines in Sunspot Spectra**E. A. Mallia **14**, 125**Determination of Solar Doppler Widths by Goldberg's Method**A. R. Dunn and E. C. Olson **16**, 272

- Spectral Investigation of Chromospheric Fine Structure
Ulrich Grossmann-Doerth and Marina von Uexküll 20, 31
- The Broadening of the Sodium D-Lines
E. L. Lewis, L. F. McNamara, and H. H. Michels 23, 287
- The Solar Abundance of Calcium and Collision Broadening of Ca I- and Ca II-Fraunhofer Lines by Hydrogen
H. Holweger 25, 14
- Micro- and Macroturbulent Motions and the Velocity Spectrum of the Solar Photosphere
C. de Jager 25, 71
- Isotopes of Rubidium in the Sun
Öivind Hauge 26, 263
- A Search for the Solar Sr 87 Content and the Solar Rb/Sr Ratio
Öivind Hauge 26, 276
- The Solar Manganese Abundance
Thomas E. Margrave, Jr. 27, 294
- A Mechanism for the Production of Light and Dark Contrasts in Radiatively Controlled Lines
K. B. Gebbie and R. Steinitz 29, 3
- High-Resolution Photography of the Solar Chromosphere. X: Physical Parameters of H α Mottles
R. J. Bray 29, 317
- Solar X-Ray Spectra Observed from the 'Intercosmos-4' Satellite and the 'Vertical-2' Rocket
Yu. I. Grineva, V. I. Karev, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, L. A. Vainstein, B. N. Vasilyev, and I. A. Zhitnik 29, 441
- The Influence of Molecular Blends and Non-Thermal Line Broadening on the Profile of the Zeeman Triplet λ 5250.22 in Sunspots
Olav Kjeldseth Moe 33, 393
- Line Broadening Calculations for Some Infrared Solar Fraunhofer Lines
Ghislain Deridder and Walter van Rensbergen 34, 77
- Non-Thermal Line Broadening in the Solar Chromosphere
R. A. E. Fosbury 34, 309
- The Photospheric Barium Spectrum: Solar Abundance and Collision Broadening of Ba II Lines by Hydrogen
Hartmut Holweger and Edith A. Müller 39, 19
- On the Broadening and Shift of Spectral Lines
Walter van Rensbergen, Elise de Doncker, and Ghislain Deridder 40, 303
- High n Emission and Absorption Lines of the Sun (II)
A. Greve 40, 329
- Spectral Features to be Expected from Rotational and Expansional Motions in Fine Solar Structures
B. Rompolt 41, 329
- The Stark Broadening Mechanism in an Unstable Plasma
D. S. Spicer and J. Davis 43, 107
- The Zeeman Broadening of High n Solar Recombination Lines
A. Greve 44, 371
- The Influence of Shock-Waves on UV-Emission-Lines
Lutz R. Elzner 45, 93
- Spectroscopic Far Ultraviolet Observations of Transition Zone Instabilities and Their Possible Role in a Pre-Flare Energy Build-Up
G. E. Brueckner, N. P. Patterson, and V. E. Scherrer 47, 127 *Erratum/Replacement Figures: Figs. 1, 2, 3, 5, 10, 11 - 53, 547*
- Possible Spectral Diagnostics for Turbulent Electric Fields in Solar Flares
P. Bakshi and G. Kalman 47, 307
- Applications of Fourier Analysis to Broadening of Stellar Line Profiles. V: Effects of Finite Sized Eddies on Solar Lines
Myron A. Smith and H. Frisch 47, 461
- A Measurement of the Helium D $_3$ Profile with a Birefringent Filter
Barry J. LaBonte 53, 369
- The Si IV λ 1393 Line in a Coronal Hole Compared to the Quiet Sun from OSO-8 Observations
Michael H. Francis and Robert Roussel-Dupré 53, 465

- Improved Values for the Solar Micro- and Macro-Turbulent Filter Functions
Cornelis de Jager and Jan Vermue **54**, 313
- Dynamical Implications of Si IV Line Profiles from OSO-8 Observations
Donald E. Billings, Robert Roussel-Dupré, and Michael H. Francis **55**, 287
- Resonance Line Scattering from Optically Thin Structures Located above the Solar Limb
L. E. Cram and I. M. Vardavas **57**, 27
- Turbulence in Stellar Atmospheres (*Invited Review Paper*)
David F. Gray **59**, 193
- On the Microturbulence in the Solar Photosphere
R. I. Kostik and T. V. Orlova **62**, 89
- Plane Grating as Polar Heliostat in Eclipse Observations of the Chromosphere and Prominences with Special Application to Studies of Doppler-Widened Thomson-Scattered Fraunhofer Lines
Yngve Öhman **62**, 407
- Echelle Observations of C III λ 1909 and Si III λ 1892
Marc S. Allen **64**, 71
- O VI ($\lambda = 1032 \text{ \AA}$) Profiles in and above an Active Region Prominence, Compared to Quiet Sun Center and Limb Profiles
J. C. Vial, P. Lemaire, G. Artzner, and P. Gouttebroze **68**, 187
- On the Branching in the Emission Relations of Ca^+ in Prominences
G. Stellmacher and E. Wiehr **71**, 299
- The Empirical Determination of Damping Constants in the Solar Photosphere. II: Results Inferred from the Wings of Fe I Lines
E. A. Gurtovenko, G. L. Fedorchenko, and N. N. Kondrashova **77**, 291
- Damping Constant and Turbulence in the Solar Atmosphere
R. I. Kostik **78**, 39
- On the Color of the 26 February 1981 White Light Flare
Donald F. Neidig and Ronald O. Beck **78**, 225
- The Hanle Effect and the Diagnostics of Turbulent Magnetic Fields in the Solar Atmosphere
J. O. Stenflo **80**, 209
- Electric Fields in Coronal Magnetic Loops
P. Foukal, P. Miller, and L. Gilliam **83**, 83
- Line Width Observation of He II 4686 \AA and He I 4713 \AA in the Chromosphere
Tadashi Hirayama and Makoto Irie **90**, 291
- The Kinematic Processes in Solar Prominences and Flares and Their Spectral Features
Ye Shi-Hui and Jin Jie-Hai **96**, 113
- Spectral Line, Curve Of Growth** (*see Spectral Line*)
- Spectral Line, Displacements** (*see Spectral Line*)
- Spectral Line, Equivalent Widths**
- Center-to-Limb Analysis of the Solar Oxygen Lines
Edith A. Müller, Bodo Baschek, and Hartmut Holweger **3**, 125
- The Center-Limb Behavior of Solar Molecular Lines
George L. Withbroe **3**, 146
- The Forbidden Lines of O I in the Photospheric Spectrum
E. A. Mallia **3**, 505
- A Study of the Green TiO Band in the Sunspot Spectrum
Mitsugu Makita **3**, 557
- Solar Abundances of Lithium, Beryllium and Boron
Nicolas Grevesse **5**, 159
- A New Method for the Analysis of Equivalent Widths and Its Application to Solar Photospheric Oxygen
Richard C. Altrock **5**, 260
- Forbidden Lines of Fe II in the Photospheric Spectrum
D. Emerson and E. A. Mallia **5**, 303

Forbidden Sulfur I Lines in the Solar Spectrum

J. P. Swings, D. L. Lambert, and N. Grevesse 6, 3

Source Functions of Infrared Fraunhofer Lines from Equivalent Widths

Richard C. Altmann 7, 3

The Forbidden Line [Ca II] $\lambda 7323$ in the Fraunhofer Spectrum

D. L. Lambert and E. A. Mallia 10, 311

Temperature Difference between the Equator and the Poles of the Sun

B. Caccin, R. Falciani, G. Moschi, and M. Rigutti 13, 33

On Equivalent Widths in a Penumbral Spectrum (A Test of the Moe-Maltby Model)

H. Schleicher and E. H. Schröter 17, 31

The Influence of the Sunspot Model on the Li-Abundance

G. Stellmacher and E. Wiehr 21, 96

Observations of the Infrared Fe XIII Lines in the Solar Corona of 12 November, 1966

Paul L. Byard and Kenneth E. Kissell 21, 351

Detection of Blends in the Vicinity of Zeeman Lines

A. Wittmann 23, 294

The Solar Abundance of Calcium and Collision Broadening of Ca I- and Ca II-Fraunhofer Lines by Hydrogen

H. Holweger 25, 14

The Visible Spectrum of the Lower Corona during the Total Eclipse of May 30, 1965

F. Magnant-Crifo 31, 91

Temperature Variations in the Solar Photosphere. II: A Search for Equator-to-Pole Differences in Photospheric Temperature

R. Falciani, M. Rigutti, and G. Roberti 35, 277

The [Ca II] $\lambda 7323.90$ Line in the Solar Spectrum

Roger W. Day 36, 25

Equivalent Width of Molecular Lines in Stars. I: Lyman and Werner Bands of H_2 in the Solar Atmosphere

K. S. Krishna Swamy 41, 301

Forbidden Ca II in the Sun Unmasked by Way of Venus

Ronald A. Schorn, Andrew T. Young, and Edwin S. Barker 43, 9

A New Method for the Analysis of the Solar Photospheric Spectrum. The Rotational Temperature of the C_2 Molecule

P. Persi 43, 39

Five-Minute Oscillations of Solar Equivalent Widths

Hartmut Holweger and Larry Testerman 43, 271

On the Center-to-Limb Variation of Infrared Photospheric Carbon Lines and the Infrared Continuum Intensity around $1.75 \mu m$

Hubertus Wöhl 43, 285

Investigation of Emission Lines of the Solar Corona of 10 July, 1972 Using the Fabry-Pérot Etalon

I. S. Kim and G. M. Nikolsky 43, 351

Vibration Rotation Bands of NO in Sunspots

V. P. Gaur 46, 121

Equivalent Width of Molecular Lines in Stars. II: Lines of (A-X) Band of CO and SiO in the Solar Atmosphere

K. S. Krishna Swamy 47, 469

The Dark Component of the Photospheric Network

Stephen A. Schoolman and Harry E. Ramsey 50, 25

Vibration Rotation Bands of SiO in Sunspots

V. P. Gaur, M. C. Pande, and B. M. Tripathi 56, 67

Photospheric Network from Study of Manganese Lines

G. Elste and R. G. Teske 59, 275

The Center-to-Limb Behavior of Ca I $\lambda 6573$ and [Ca II] $\lambda 7324$

T. R. Ayres and L. Testerman 60, 19

On the Presence of SH in the Sunspot Spectrum

G. C. Joshi and M. C. Pande 62, 69

Dependence of the Correlation of Small Scale Photospheric Structures upon Resolution

R. G. Teske and G. H. Elste 62, 241

Spectral Line, Formation in Magnetic Field

A Generalized Theory for Line Formation in a Homogeneous Magnetic Field

Olav Kjeldseth Moe **4**, 267Sur une particularité de la composante π du triplet normal dans l'ombre d'une tacheJ. C. Henoux **4**, 315The Intensity, Velocity and Magnetic Structure of a Sunspot Region. III: On the Origin of the Apparent π Component in Sunspot UmbraeJ. M. Beckers and E. H. Schröter **7**, 22

Interpretation of Infrared Oxygen Spectroheliograms

Richard C. Altrock **7**, 343

About the Influence of Inhomogeneities of Magnetic Fields on Line Contours and Magnetographic Measurements

J. Staude **8**, 264On the Pseudo- π -Component in Sunspot SpectraRainer Göhring **8**, 271

The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. I: The Zeeman Triplet

J. M. Beckers **9**, 372 *Erratum 15, 507*

The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. II: Zeeman Multiplets for Dipole and Quadrupole Radiation

J. M. Beckers **10**, 262

Line Formation in a Magnetic Field

David E. Rees **10**, 268

Magnetograph Measurements with Temperature-Sensitive Lines

J. Harvey and W. Livingston **10**, 283

On Polarimetry in Solar Active Regions. II: Selection of Lines; Interpretation of Polarimetric Data

E. Wiehr **11**, 399

Line Formation in Magnetic Fields. Comments on the Role of Atomic Level Polarization

F. K. Lamb **12**, 186

Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. III: Calculations for Different Spot Models and Arbitrary Depth Dependence of the Magnetic Field Vector

J. Staude **15**, 102

On the Absorption Matrix in a Non-Uniform Magnetic Field

David E. Rees **16**, 67

Analytical Solutions to the Unno Transfer Equations for the Stokes Parameters in a Milne-Eddington Atmosphere

M. J. Hagyard **16**, 286

A Generalized Analytic Solution to the Equations of Transfer in a Magnetic Field

Jürgen Staude **18**, 22

Remarks on Some Recent Papers Concerning Line Formation in a Magnetic Field

Jürgen Staude **18**, 24

On the Solution of the Transfer Equation System for a Non-Scattering Medium with a Homogeneous Magnetic Field

J. M. Katz **20**, 362

On Magneto-Optical Effects in Sunspots

A. Wittmann **20**, 365

The Crossover and Magneto-Optical Effects in Sunspot Spectra

V. M. Grigorjev and J. M. Katz **22**, 119

On the Mean Depth of Line Formation in a Magnetic Field

Jürgen Staude **24**, 255On the Interpretation of the π -Component Splitting in Sunspot SpectraV. N. Obridko and L. B. Demkina **24**, 336

Calculation of 5250.216 Å Line Profiles in Sunspots

A. R. Dunn **26**, 83

Quantum Theory of Line Formation in a Magnetic Field

Egidio Landi Degl'Innocenti and Maurizio Landi Degl'Innocenti **27**, 319 *Erratum 29, 528*

- Non-LTE Line Formation in a Magnetic Field. I: Non-Coherent Scattering and True Absorption
H. Domke and J. Staude 31, 279
- Non-LTE Line Formation in a Magnetic Field. II: The Influence of Non-Coherent Scattering on Line Contours
H. Domke and J. Staude 31, 291
- A Perturbative Solution of the Transfer Equations for the Stokes Parameters in a Magnetic Field
Egidio Landi Degl'Innocenti and Maurizio Landi Degl'Innocenti 31, 299
- On the Interpretation of Some Peculiarities Observed in Zeeman-Split Line Contours in Sunspots
Jürgen Staude 32, 403
- Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. II: Computation of Stokes Parameter Profiles
A. Wittmann 35, 11
- Temperature Effects on Measurements of Photospheric Magnetic Fields
B. Caccin, R. Falciani, and A. Donati-Falchi 35, 31
- The Crossover Effect in Sunspots and the Fine Structure of Penumbra
A. A. Golovko 37, 113
- Magnetoactive Lines in the Medium with the Velocity Gradient
V. M. Grigorjev and J. M. Katz 42, 21
- The Zeeman Broadening of High n Solar Recombination Lines
A. Greve 44, 371
- The Determination of Vector Magnetic Fields from Stokes Profiles
L. H. Auer, J. N. Heasley, and L. L. House 55, 47
- Magneto-Optical Effects and the Interpretation of Linearly Polarized Intensity Distributions Observed with a Vector Magnetograph
E. Landi Degl'Innocenti 63, 237
- Electron Impact Polarization of X-Ray Lines from Hydrogen-Like Ions during Solar Flares
Eberhard Haug 71, 77
- Thermodynamical Properties of Unresolved Magnetic Flux Tubes. I: A Diagnostic Method Based on Circular Polarization Ratios in Line Pairs
Egidio Landi Degl'Innocenti and Marco Landolfi 77, 13
- The Hanle Effect of the Coronal $\text{L}\alpha$ Line of Hydrogen: Theoretical Investigation
V. Bommier and S. Sahal-Br       78, 157
- Magneto-Optical Effects and the Determination of Vector Magnetic Fields from Stokes Profiles
M. Landolfi and E. Landi Degl'Innocenti 78, 355
- Scaling-Law Equilibria for Calcium in Canopy-Type Models of the Solar Chromosphere
Harrison P. Jones 79, 279
- The Determination of Vector Magnetic Fields in Prominences from the Observations of the Stokes Profiles in the D_3 Line of Helium
Egidio Landi Degl'Innocenti 79, 291
- The Hanle Effect and the Diagnostics of Turbulent Magnetic Fields in the Solar Atmosphere
J. O. Stenflo 80, 209
- Polarization in Spectral Lines. II: A Unifying Theoretical Approach
E. Landi Degl'Innocenti 85, 3 *Erratum 88, 391*
- Asymmetries in Stokes Profiles of Magnetic Lines: a Linear Analysis in Terms of Velocity Gradients
E. Landi Degl'Innocenti and M. Landolfi 87, 221
- Interpretation of Vector Magnetograph Data Including Magneto-Optic Effects. I: Azimuth Angle of the Transverse Field
E. A. West and M. J. Hagyard 88, 51
- On the Diagnostic of Magnetic Fields in Sunspots through the Interpretation of Stokes Parameters Profiles
M. Landolfi, E. Landi Degl'Innocenti, and P. Arena 93, 269
- High-Resolution Spectroscopy of Active Regions. 2: Line-Profile Interpretation, Applied to an Emerging Flux Region
J. J. Brants 95, 15
- On the Solution of the Radiative Transfer Equations for Polarized Radiation
E. Landi Degl'Innocenti and M. Landi Degl'Innocenti 97, 239

Polarization of the Sodium D Lines in ProminencesM. Landolfi and E. Landi Degl'Innocenti **98**, 53**High-Resolution Spectroscopy of Active Regions. 3: Relations between the Intensity, Velocity, and Magnetic Structure in an Emerging Flux Region**J. J. Brants **98**, 197**The Zeeman Pattern of Magnetic Lines and Their Statistical Properties in the Fe I Solar Spectrum**Egidio Landi Degl'Innocenti **99**, 1**Spectral Line, Height of Formation****The Solar H and K Lines of Ionized Calcium**J. B. Zirker **3**, 164**The O VI Emission from the Sun**Ben-Zion Kozlovsky and Harold Zirin **5**, 50**The Geometrical Height-Scale and the Pressure Equilibrium in the Sunspot Umbra**W. Mattig **8**, 291**The Interpretation of Velocity Filtergrams. I: The Effective Depth of Line Formation**R. L. Parnell and J. M. Beckers **9**, 35**Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. II: The Influence of Different Atmosphere Models and of a Magnetic Field Gradient**J. Staude **12**, 84 *Erratum 15*, 111 **$\Lambda\alpha$ Measurements during the Solar Eclipse of 12 November 1966**L. H. Weeks and L. G. Smith **20**, 59**A Measurement of the Non-Thermal Velocity in the Low Chromosphere**Richard C. Canfield **20**, 275**A Comparison between Mg II and Ca II Spectroheliograms**Kerstin Fredga **21**, 60**On the Coronal Lines in the Chromosphere at the 1970 Eclipse**M. Kanno, T. Tsubaki, and H. Kurokawa **21**, 314**Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico**G. M. Nikolsky, R. A. Gulyaev, and K. I. Nikolskaya **21**, 332**Turbulent Velocity in Undisturbed and Active Photosphere**O. G. Badalyan and M. A. Livshits **22**, 297**Formation of the Solar $H\alpha$ Profile**Stephen A. Schoolman **22**, 344**Observed Heights of EUV Lines Formed in the Transition Zone and Corona**George W. Simon and Robert W. Noyes **22**, 450**On the Dependence of the Linear Velocity of Solar Rotation on Latitude and Optical Depth**Y. A. Solonsky **23**, 3**On the Mean Depth of Line Formation in a Magnetic Field**Jürgen Staude **24**, 255**Solar Rotation: The Photospheric Height Gradient**W. Livingston and R. Milkey **25**, 267**The Solar Diameter at 5000 Å and $H\alpha$ from Photoelectric Drift Scans**A. Wittmann **29**, 333**Fluctuations of Brightness and Vertical Velocity at Various Heights in the Photosphere**Richard C. Canfield and J. P. Mehlretter **33**, 33**Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. II: Computation of Stokes Parameter Profiles**A. Wittmann **35**, 11**On the Average Optical Depth of Formation of Weak Fraunhofer Lines**E. Gurtovenko, V. Ratnikova, and C. de Jager **37**, 43**Observed Heights of EUV Lines Formed in the Transition Zone and Corona. II: NRL Rocket Observations**George W. Simon, Paul H. Seagraves, R. Tousey, J. D. Purcell, and Robert W. Noyes **39**, 121**Acoustic Waves and the Geometric Scale in the Solar Atmosphere**Franz-Ludwig Deubner **40**, 333

- The Solar Lithium Abundance. II: Synthetic Analysis of the Solar Lithium Feature at $\lambda 6707.8 \text{ \AA}$
 Edith A. Müller, Eric Peytremann, and Ramiro de la Reza **41**, 53
- Supplementary Remarks to 'On the Average Depth of Formation of Weak Fraunhofer Lines' by E. Gurtovenko,
 V. Ratnikova and C. de Jager
 E. A. Gurtovenko and V. A. Ratnikova **42**, 43
- Height of Helium Emission in the Chromosphere
 Thomas Pope and Stephen A. Schoolman **42**, 47
- Heights of Formation of Non-Magnetic Solar Lines Suitable for Velocity Studies
 Richard C. Altrrock, Laurence J. November, George W. Simon, Robert W. Milkey, and Simon P.
 Worden **43**, 33
- Line Intensities in the Photosphere-Chromosphere Transition Region. IV: Cr I and Metallic Ion Lines
 E. L. van Dessel **44**, 13
- Helium Emission in the Middle Chromosphere
 M. A. Livshits, L. A. Akimov, I. L. Belkina, and N. P. Dyatel **49**, 315
- Comparison of Effective Depths of Fraunhofer Line Formation Calculated by Various Methods
 E. A. Gurtovenko and V. A. Ratnikova-Sheminova **58**, 241
- Coherence Analysis of Granular Intensity
 F. J. Kneer, W. Mattig, A. Nesis, and W. Werner **68**, 31
- A Statistical Analysis of Na I D₁ Profile Fluctuations at the Center of the Solar Disk. I: Data Reduction and
 Resolvable Velocities
 Frank N. Edmonds, Jr. and Jin-Chung Hsu **83**, 217
- On the Depth Dependence of the Solar Rotation Velocity Determined from Fraunhofer Lines
 Horst Balthasar **84**, 371
- The Height of H α Flare Emitting Region (*Extended Abstract*)
 Hiroki Kurokawa **86**, 195
- Asymmetries and Wavelengths of Solar Spectral Lines and the Solar Rotation Determined from Fourier-
 Transform Spectra
 Horst Balthasar **93**, 219
- Spectral Line, Identification**
- Forbidden Carbon I Lines in the Solar Spectrum
 D. L. Lambert and J. P. Swings **2**, 34
- A Survey of Current Coronal Visible Line Identifications
 William J. Wagner and Lewis L. House **5**, 55
- The Abundance of Chlorine in the Sun
 D. L. Lambert and E. A. Mallia **5**, 181
- A Study of Weak Molecular and Atomic Lines in the Photospheric Spectrum
 E. A. Mallia **5**, 281
- Forbidden Sulfur I Lines in the Solar Spectrum
 J. P. Swings, D. L. Lambert, and N. Grevesse **6**, 3
- X-Ray and Extreme Ultraviolet (1-400 \AA) Spectroscopy of the Sun, from OSO-III
 W. M. Neupert, W. A. White, W. J. Gates, M. Swartz, and R. M. Young **6**, 183
- Abundances of Heavy Elements in the Sun
 Nicolas Grevesse **6**, 381
- The Energy Distribution in the Solar EUV Spectrum and Abundance of Elements in the Solar Atmosphere
 G. M. Nikolsky **6**, 399
- Forbidden Lines of Ca II in the Photospheric Spectrum
 D. L. Lambert, E. A. Mallia, and B. Warner **7**, 11
- Molecules in the Solar Photosphere
 M. C. Pande, V. P. Gaur, and B. M. Tripathi **7**, 17
- Abundances of the Rare Earths in the Sun
 N. Grevesse and G. Blanquet **8**, 5
- Comments on Forbidden Sulphur I Lines in the Solar Spectrum
 J. W. Swensson **9**, 31
- On H₂O in Sunspots
 H. Wöhl **9**, 394

Spin-Forbidden Resonance Multiplets in Light ElementsB. Edlén, H. P. Palenius, K. Bockasten, R. Hallin, and J. Bromander **9**, 432**On the Identification of Ar X and Ar XIV in the Solar Corona and the Origin of the Unidentified Coronal Lines**Bengt Edlén **9**, 439**Clarification in the Identification of Certain Lines in the Infrared Solar Spectrum**Earl F. Montgomery **10**, 60**On the Absence of the (0,0) C₂ Swan Band from Sunspot Spectra**David Branch **10**, 112**The Abundance of Cadmium in the Solar Atmosphere**Øivind Hauge **10**, 315**Identification of SiH Lines in the Solar Disk Spectrum**A. J. Sauval **10**, 319**The Diatomic Molecules BH, BN, and BO in Sunspots and the Solar Abundance of Boron**O. Engvold **11**, 183**New C¹³N¹⁴ Search Regions in the Solar Spectrum**Theodore D. Fay and Arne A. Wyller **11**, 384**The Possible Existence of HOH Lines in the Sunspot Spectrum**E. A. Mallia and D. E. Blackwell **12**, 101**The Solar Abundance of Nickel from Photospheric [Ni II] Lines**N. Grevesse and J. P. Swings **13**, 19**The Search for Rhenium Lines in the Fraunhofer Spectrum**J. W. Swensson **13**, 25**Solar Soft X-Ray Flare Spectra from OSO-4**J. F. Meekins, G. A. Doschek, H. Friedman, T. A. Chubb, and R. W. Kreplin **13**, 198**Further X-Ray Spectra of Solar Active Regions**R. M. Batstone, K. Evans, J. H. Parkinson, and K. A. Pounds **13**, 389**The Solar Limb Emission Spectrum between 300 Å and 2803 Å**W. M. Burton and A. Ridgeley **14**, 3**The Spectrum of Multiply Ionized Iron between 10 and 17 Å**J. P. Connerade, N. J. Peacock, and R. J. Speer **14**, 159 *Erratum 17*, 269**Improved Solar Wavelengths between 7780 and 7925 Å**A. T. Young and R. A. Schorn **15**, 97**Grazing Incidence Spectra of the Sun**F. F. Freeman and B. B. Jones **15**, 288**An Upper Limit of the Swan Band Intensity in a Sunspot Spectrum**Aert Schadee **15**, 345**High Quantum Number Emission and Absorption Lines of Fe VIII, Fe XV, O III, O VII of the Sun**A. Greve **15**, 380**The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965**John T. Jefferies, Frank Q. Orrall, and J. B. Zirker **16**, 103**λ4097.3 N III Emission in the Chromospheric Spectrum?**D. L. Lambert **16**, 336**On Molecules in Sunspots**H. Wöhl **16**, 362**A Comment on Solar Flare Iron Line Emission at 1.9 Å**K. J. H. Phillips and J. L. Culhane **16**, 469**Theoretical Intensities of Fe XIV in the Solar EUV Spectrum**M. Blaha **17**, 99**The Spectrum of Multiply Ionized Argon between 20 and 40 Angstroms**J. P. Connerade, N. J. Peacock, and R. J. Speer **18**, 63**Predicted Wavelengths of Coronal Transitions in the Configurations 3s²3p², 3s²3p³ and 3s²3p⁴**Lars Åke Svensson **18**, 232**Satellite Lines in the Solar X-Ray Spectrum**Werner M. Neupert **18**, 474

On the Abundance of Chlorine in the Sun

D. L. Lambert, E. A. Mallia, and J. Brault 19, 289

Interferometric Measurements of 142 Solar Wavelengths

James E. O'Brien, S.J. 19, 314

Further Study of H₂O Lines in the Umbral Spectrum in the Region of 0.93 μ

E. A. Mallia, D. E. Blackwell, and A. D. Petford 20, 369

Ultraviolet Solar Spectrum Recorded by Echelle Spectrograph (1970 to 1800 Å)

Howard C. McAllister 21, 27

Isoelectronic Wavelength Calculations for Argon Spectra

M. D. Williams 21, 38

On the Accuracy of Hartree-Fock Theoretical Wavelengths in the XUV

J. P. Connerade 21, 40

Some Newly Discovered Coronal Emission Lines from High Altitude Infrared Observations of the 7 March, 1970, Solar Eclipse

Kenneth H. Olsen, Charles R. Anderson, and John N. Stewart 21, 360

The Identification of New Forbidden Coronal Lines in the Solar EUV Spectrum

Carole Jordan 21, 381

The Solar Abundance of Gold

John E. Ross and Lawrence H. Aller 23, 13

Detection of Blends in the Vicinity of Zeeman Lines

A. Wittmann 23, 294

Some New Dy II Identifications in the Solar Spectrum

J. C. Howard 24, 32

On C₂ Lines in Sunspot Spectra

Hubertus Wöhl 24, 342

C₂ in Sunspots

J. W. Harvey 24, 354

Z-Dependence of the Level Intervals in $2s^22p^2$, $2s^22p^3$ and $2s^22p^4$

Bengt Edlén 24, 356

Raies nouvelles observées lors de l'éclipse du 7 Mars 1970

Z. Mouradian 24, 368

Water Vapour in Sunspots

L. Staveland 26, 90

Thallium in the Solar Atmosphere

D. L. Lambert, E. A. Mallia, and G. Smith 26, 250

Measurements of the Solar Spectrum between 30 and 128 Å

James E. Manson 27, 107

Further Identifications in the Ar IX Spectrum

J. P. Connerade 27, 130

Further Observations of the Solar Limb Spectrum in the Region 550-2000 Å

A. Ridgeley and W. M. Burton 27, 280

The Absorption Spectrum of Atmospheric Water Vapor in the Vicinity of the He 10830 Å Triplet

James B. Breckinridge and Donald N. B. Hall 28, 15

New Identifications of Disk Emission Lines in the Ca II H and K Line Wings

O. Engvold and H. D. Halvorsen 28, 23

The He⁺ λ 4686 Line in the Low Chromosphere

S. P. Worden, J. M. Beckers, and T. Hirayama 28, 27

High Resolution Ultraviolet Solar Spectra in the Region 2765-2822 Å

A. Greve, C. D. McKeith, and N. E. McKeith 28, 289

An Early Observation of λ 8542 of the Ca II Infrared Triplet

John A. Eddy 29, 23

Spectra of Solar Flares from 8.5 Å to 16 Å

G. A. Doschek, J. F. Meekins, and Robert D. Cowan 29, 125

Solar X-Ray Spectra Observed from the 'Intercosmos-4' Satellite and the 'Vertical-2' Rocket

Yu. I. Grineva, V. I. Karev, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, L. A. Vainstein, B. N. Vasilyev, and I. A. Zhitnik 29, 441

The Solar Abundance of Thorium and Lead

Ø. Hauge and H. Sørli 30, 301

The Visible Spectrum of the Lower Corona during the Total Eclipse of May 30, 1965

F. Magnant-Crifo 31, 91

The Possible Presence of C₂ Lines in Sunspot Spectra

D. L. Lambert and E. A. Mallia 31, 123

Solar Flare Line Emission between 6 Å and 25 Å

W. M. Neupert, M. Swartz, and S. O. Kastner 31, 171

Telluric Lines in the Vicinity $\lambda 5250$ and $\lambda 6562$ Å

W. Livingston and L. Ramsey 31, 317

 $3p^63d^n-3p^53d^{n+1}$ Spectra of Fe VI and Fe VII

B. C. Fawcett and R. D. Cowan 31, 339

Oscillator Strengths for $2pnd-2pn'f$ Transitions of C I and Identification in the Infrared Solar Photospheric Spectrum ($1 \leq \lambda \leq 3 \mu$)

E. Biémont 32, 117

Limb Emission Lines near Solar H and K: $\lambda \lambda 3900$ to 4000 Å

Robert E. Stencel 33, 59

On the Solar Bismuth Content

Øivind Hauge 34, 33

The Identification of Fe IX and Ni XI in the Solar Corona

L. Å. Svensson, J. O. Ekberg, and B. Edlén 34, 173

The [Ca II] $\lambda 7323.90$ Line in the Solar Spectrum

Roger W. Day 36, 25

A Correction to McAllister's 1960 Atlas of the Solar Spectrum

Eric G. Chipman 36, 45

High n Emission and Absorption Lines of the Sun

A. Greve 36, 85

On Helium-Like $1s2l-1snl'$ Transactions in Solar Flare Spectra

S. O. Kastner, W. M. Neupert, and M. Swartz 36, 121

The Ultraviolet Solar Spectrum 2756 Å-2831 Å

A. Greve and C. D. McKeith 37, 3

Prediction and Identification of Some Forbidden Lines in the Ne I Sequence

S. O. Kastner 37, 179

The Photospheric Barium Spectrum: Solar Abundance and Collision Broadening of Ba II Lines by Hydrogen

Hartmut Holweger and Edith A. Müller 39, 19

Ultraviolet Solar Spectrum (1889-1969 Ångströms)

Howard C. McAllister and Peter H. Smith 41, 3

The Solar Lithium Abundance. I: Observations of the Solar Lithium Feature at $\lambda 6707.8$ Å

James W. Brault and Edith A. Müller 41, 43

On the Identification of Fe IX and Ni XI from Coronal Spectrum

Froïse Magnant-Crifo 41, 109

The Analysis of a High Resolution X-Ray Spectrum of a Solar Active Region

John H. Parkinson 42, 183

Observation of Possible Fe XVII $2p^53p(^1S_0)-2p^53s(^1P_1, ^3P_1)$ Transitions in Spectra of a Solar Active Region and Flare

S. O. Kastner, W. M. Neupert, and M. Swartz 43, 111

Temperature Variations in the Solar Photosphere. III: Kitt Peak Measurements of the Variations of Photospheric Line Profiles with the Heliographic Latitude

B. Caccin, R. Falciani, and A. Donati-Falchi 46, 29

Vibration Rotation Bands of NO in Sunspots

V. P. Gaur 46, 121

The Spectrum of Ni XIX in the Solar Corona

R. J. Hutcheon, J. P. Pye, and K. D. Evans 46, 171

The Solar Hafnium Abundance

T. Andersen, P. Petersen, and Ö. Hauge 49, 211

- Possibility of $^{24}\text{MgH}^+$ in the Solar Atmosphere - High Resolution Rotation-Vibration Spectra
P. D. Singh and W. J. Maciel **49**, 217
- Identification of Forbidden Coronal Lines of Fe X and Ni XII
Rikard Smitt **51**, 113
- High n Solar Radio Recombination Lines
A. Greve **52**, 423
- New Measurements of the Se I Resonance Lines
B. Lindgren and H. Palenius **53**, 347
- On AIF Lines in Sunspots
P. S. Murty **54**, 377
- New Satellite Structure of the Solar and Laser Plasma Spectra in Vicinity of the $\text{L}\alpha$ (Mg XII) Line
E. V. Aglizki, V. A. Boiko, A. Ya. Faenov, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, S. A. Pikuz, U. I. Safronova, J. A. Sylwester, A. M. Urnov, L. A. Vainshtein, and I. A. Zhitnik **56**, 375
- The Forbidden Transitions within $3s^23p^53d$ of Fe IX and Ni XI and $3s^23p^43d$ of Fe X and Ni XII
B. Edlén and R. Smitt **57**, 329
- Spatial Structure in Lines in the 3398-3526 Å Region at the Extreme Limb: Observations, Identification and Interpretation
Richard C. Canfield, Jay M. Pasachoff, Robert E. Stencel, and Jacques M. Beckers **58**, 263
- On the Gamma System on Nitric Oxide in Sunspots
G. C. Joshi, M. C. Pande, and D. S. Shukla **58**, 343
- Isotopic Lines of SiO in Sunspots
M. C. Pande and G. C. Joshi **59**, 353
- Silicon X-Ray Line Emission from Solar Flares and Active Regions
John H. Parkinson, R. S. Wolff, H. L. Kestenbaum, W. H.-M. Ku, J. R. Lemen, K. S. Long, R. Novick, R. J. Suozzo, and M. C. Weisskopf **60**, 123
- Solar Abundance of Praseodymium
Emile Biémont, Nicolas Grevesse, and Øivind Hauge **61**, 17
- The Balmer 9 and Balmer 11 Lines of He II in the Sun
J. C. Raymond, R. W. Noyes, and M. P. Stopa **61**, 271
- Density Dependence of Forbidden Transitions within $3s^23p^53d$ of the Coronal Ion Fe IX
Eberhard Haug **61**, 311
- On the Presence of SH in the Sunspot Spectrum
G. C. Joshi and M. C. Pande **62**, 69
- On the O₂ Schumann-Runge Band System in Sunspots
G. C. Joshi, L. M. Punetha, and M. C. Pande **63**, 79
- On Magnesium Monoxide Lines in Sunspot Spectra
P. S. Murty **63**, 83
- Solar Flare X-Ray Spectra. I: Wavelengths of Fe XXIV-XXV Lines in the Regions $\lambda = 1.85\text{-}1.87$ Å
V. V. Korneev, V. V. Krutov, S. L. Mandelstam, A. M. Urnov, I. A. Zhitnik, E. Ya. Kononov, B. Sylwester, and J. Sylwester **63**, 319
- Solar Flare X-Ray Spectra. II: Laboratory Reproduction in the Region of Fe XXV-XXVI Resonance Lines
V. V. Korneev, V. V. Krutov, S. L. Mandelstam, A. M. Urnov, I. A. Zhitnik, E. Ya. Golts, E. Ya. Kononov, and Y. V. Sidelnikov **63**, 329
- The Coronal Spectra of Fe XV and Ni XVII
A. K. Bhatia and S. O. Kastner **65**, 181
- f -Values for Tb II and a Search for Terbium in the Solar Photosphere
E. Biémont, G. Roland, and L. Delbouille **71**, 223
- Analysis of the High-Resolution X-Ray Spectra Obtained aboard the Intercosmos 16 Satellite. I: Identification of the Lines in the 9.14-9.33 Å Spectral Region
V. V. Krutov, V. V. Korneev, U. I. Karev, V. M. Lomkova, S. N. Oparin, A. M. Urnov, I. A. Zhitnik, G. Bromboszcz, M. Siarkowski, J. Sylwester, and S. Vasha **73**, 105
- The Solar Abundance of Tungsten
Hartmut Holweger and Klaus Werner **81**, 3
- Proposed Mg V, Fe XIV and Forbidden Fe XVII Line Identifications in the EUV Solar Spectrum
S. O. Kastner **81**, 59

- Expected Intensities of Solar Forbidden Lines Emitted from $2p^k$ ($k = 2, 3, 4$) Configurations
S. O. Kastner **85**, 41
- Are Plasma Satellites Present among Chromospheric Lines?
Yngve Öhman **85**, 53
- A Line Identification List for the Solar Flare of 7 September, 1973 in the Wavelength Range 1335 Å-380 Å
J. G. Doyle **89**, 115
- The 3410 Å Band of the PH Molecule in the Solar Photospheric Spectrum
Elisabete M. De Gouveia and P. D. Singh **90**, 259
- Water Vapor and Fe 5250.2
W. Livingston and L. Wallace **95**, 251
- Expected Intensities of Solar Neon-Like Ions
A. K. Bhatia and S. O. Kastner **96**, 11
- Spectral Line, Intensity**
- Variability of the Integrated Solar K Line Emission
V. Bumba and B. Růžicková-Topolová **1**, 216
- The Excitation of Fe XVII by Electron Impacts
O. Bely and F. Bely **2**, 285
- The Relative Intensities of C I Lines in the Solar EUV Spectrum
Carole Jordan **2**, 441
- A Measurement of the Solar H and K Profiles
O. R. White and Z. Suemoto **3**, 523
- Emission of Fe XV in Coronal Conditions
O. Bely and M. Blaha **3**, 563
- Photoelectric Measurements of the Green Coronal Line during the Eclipse of November 12, 1966
J. McKim Malville and Edward J. Schmahl **4**, 224
- Le Fe XII dans la couronne d'émission
J.-P. Rozelot **8**, 91
- On the Chromospheric Observations at the 1962 Eclipse
William Henze, Jr. **9**, 56
- Equator-Pole Effect in the Central Intensities of Some Strong Solar Fraunhofer Lines
Marijke Burger and J. Houtgast **9**, 296
- The Excitation of the Forbidden Coronal Lines. I: Fe XIII $\lambda\lambda 10747, 10798$ and 3388
R. A. Chevalier and D. L. Lambert **10**, 115
- On Some Flare-Sensitive High Photospheric and Low Chromospheric Lines
Yngve Öhman **10**, 178
- The Excitation Equilibrium of Coronal Ions
J. B. Zirker **11**, 68
- The Diatomic Molecules BH, BN, and BO in Sunspots and the Solar Abundance of Boron
O. Engvold **11**, 183
- On the Relative Residual Intensities of the Calcium H and K Lines
Jeffrey L. Linsky **11**, 355
- The Helium-Like Calcium, Silicon, and Sulfur Lines during the Decay of a Large Flare
G. A. Doschek and J. F. Meekins **13**, 220 *Erratum 28, 517*
- Further X-Ray Spectra of Solar Active Regions
R. M. Batstone, K. Evans, J. H. Parkinson, and K. A. Pounds **13**, 389
- The Solar Limb Emission Spectrum between 300 Å and 2803 Å
W. M. Burton and A. Ridgeley **14**, 3
- H α Doppler Brightening and Lyman- α Doppler Dimming in Moving H α Prominences
Charles L. Hyder and Bruce W. Lites **14**, 147
- Description of an Observational Method for Determining Absolute Intensities in the Solar Spectrum between λ 2962 Å and λ 4087 Å
J. Houtgast **15**, 273
- Grazing Incidence Spectra of the Sun
F. F. Freeman and B. B. Jones **15**, 288

- A Comparison of Computed and Observed Line Profiles and Flash Intensities in the Photosphere-Chromosphere Transition Region
E. L. J. van Dessel 15, 322
- Variation on O VII X-Ray Line-Emission from the Solar Corona
H. R. Rugge and A. B. C. Walker, Jr. 15, 372
- High Quantum Number Emission and Absorption Lines of Fe VIII, Fe XV, O III, O VII of the Sun
A. Greve 15, 380
- The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965
John T. Jefferies, Frank Q. Orrall, and J. B. Zirker 16, 103
- Green Line Observations of the March 1970 Coronal Enhancements
Richard R. Fisher 16, 111
- Theoretical Intensities of Fe XIV in the Solar EUV Spectrum
M. Blaha 17, 99
- Center Limb Observations of Inhomogeneities in the Solar Atmosphere. II: The Na D and Na 5688 Doublets and the Mg I 4571 Line
C. J. Cannon and P. R. Wilson 17, 288
- Formation of the Ca II K-Line Core with Arbitrary Temperature Minima
Herbert A. Beebe 17, 304
- K Emission-Line Widths and the Solar Chromosphere
M. K. V. Bappu and K. R. Sivaraman 17, 316
- Further Results on O VII X-Ray Coronal Line Emission
H. R. Rugge and A. B. C. Walker, Jr. 18, 244
- True Central Intensities of Fraunhofer Lines
J. W. Brault, C. D. Slaughter, A. K. Pierce, and R. S. Aikens 18, 366
- The Intensity Distribution of the D₃ Helium Line near the Solar Limb
R. A. Gulyaev 18, 410
- A Comparison of Solar EUV Intensities and K-Coronameter Measurements
George L. Withbroe 18, 458
- Satellite Lines in the Solar X-Ray Spectrum
Werner M. Neupert 18, 474
- Absolute Intensity Calibrations of Solar K-Line Profiles
Jay M. Pasachoff 19, 323
- Electron Densities Derived from Line Intensity Ratios: Beryllium Isoelectronic Sequence
Richard H. Munro, A. K. Dupree, and George L. Withbroe 19, 347
- On the Abundance of Calcium in the Solar Corona
Richard R. Fisher 19, 431
- Inhomogeneities in the Solar Atmosphere from the Ca II Infra-Red Lines
Pierre Mein 20, 3
- Coronagraphic Observations of an Enhanced Coronal Region. I: Fe XII and Ni XV Emission Line Data
R. Fisher and T. Pope 20, 389
- On the Elimination of Seeing Effects from Solar Intensity Measurements
A. Wittmann 21, 237
- Fine Structure in the Inner Corona Observed at the 1970 Eclipse
T. Tsubaki, H. Kurokawa, and M. Kanno 21, 305
- Analyse des renforcements coronaux à travers quelques acquisitions spectroscopiques récentes des émissions monochromatiques du fer ionisé (X à XV)
J. P. Rozelot 22, 88
- The Interpretation of Total Line Intensities from Optically Thin Gases. I: A General Method
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker 22, 307
- The Interpretation of Total Line Intensities from Optically Thin Gases. II: The Coronal Forbidden Lines
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker 22, 317
- The Interpretation of Total Line Intensities from Optically Thin Gases. III: Application to Coronal Forbidden Line Spectra
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker 22, 327
- Calculated Solar X-Radiation from 1 to 60 Å
R. Mewe 22, 459 *Errata* 23, 508 and 44, 389

Intensity Fluctuations in Fraunhofer Lines

Frank Q. Orrall **23**, 30

Spectral Analyses of Solar Photospheric Fluctuations. II: Profile Fluctuations in the Wings of the $\lambda 5183.6$ Mg I b_1 Line

Frank N. Edmonds, Jr. **23**, 47

The Interpretation of XUV Rocket Measurements of Intensity Ratios of Solar Spectral Lines of the Lithiumlike Ions O VI, Ne VIII, and Mg X

L. Heroux, M. Cohen, and Monique Malinovsky **23**, 369

Sur la détermination du rapport d'intensité des raies infrarouges de l'ion Fe XIII

G. Ratier et J.-P. Rozelot **23**, 394

Ionized Helium in Prominences and in the Chromosphere

Tadashi Hirayama **24**, 310

Temperature Structure and Conductive Flux in the Chromosphere-Corona Transition Region

G. Elwert and P. K. Raju **25**, 319

On the Minimum Intensity of the Na D₂-5890 Å Line in Sunspot Umbra

T. Fay, J. Remo, and K. Czaja **26**, 87

Water Vapour in Sunspots

L. Staveland **26**, 90

Measurements of the Solar Spectrum between 30 and 128 Å

James E. Manson **27**, 107

Further Observations of the Solar Limb Spectrum in the Region 550-2000 Å

A. Ridgeley and W. M. Burton **27**, 280

Observed Oddities in the Lines H, K, b and H β

J. W. Evans and C. P. Catalano **27**, 299

Suggested Interpretation of the Correlations in Intensity Fluctuations in the Lines Ca II H and K, Magnesium b and Hydrogen H β

Richard N. Thomas **27**, 303

Note on Heliumlike Silicon and Sulfur Lines Observed in the X-Ray Spectra of Solar Flares (Erratum)

G. A. Doschek and J. F. Meekins **28**, 517

Extreme Ultraviolet Emission from Chromospheric Inhomogeneities. An Analysis of the Extreme Ultraviolet Flash Spectrum of the Sun

G. E. Brueckner and K. R. Nicolas **29**, 301

Observations of an Active Limb Prominence in the H β Line

Jean Burns **29**, 403

Theoretical Intensity Ratios for Some Fe XIII Coronal Lines

G. D. Finn and Donald A. Landman **30**, 381 *Errata 32, 518 and 38, 279*
The Visible Spectrum of the Lower Corona during the Total Eclipse of May 30, 1965

F. Magnant-Crifo **31**, 91

Solar Flare Line Emission between 6 Å and 25 Å

W. M. Neupert, M. Swartz, and S. O. Kastner **31**, 171

Fluctuations of Brightness and Vertical Velocity at Various Heights in the Photosphere

Richard C. Canfield and J. P. Mehlretter **33**, 33

Limb Emission Lines near Solar H and K: $\lambda\lambda 3900$ to 4000 Å

Robert E. Stencel **33**, 59

Line-Intensities in the Photosphere-Chromosphere Transition Region. II: Observational Material from the 1961 Eclipse at Brač

E. L. van Dessel, J. Houtgast, and D. Koelbloed **33**, 375

An Interpretation of the Correlation in the Intensity Fluctuations in H and K of Ca II and b_1 of Mg I

K. R. Sivaraman **36**, 49

On Helium-Like $1s2l-1snl'$ Transitions in Solar Flare Spectra

S. O. Kastner, W. M. Neupert, and M. Swartz **36**, 121

Neutron Propagation and 2.2 MeV Gamma-Ray Line Production in the Solar Atmosphere

H. T. Wang and R. Ramaty **36**, 129

Tables pour déterminer la concentration d'atomes dans un état donné: ions coronaux intéressants

J. P. Rozelot, J. C. Noens, et B. Pech **37**, 173

- Line Intensities in the Photosphere-Chromosphere Transition Region. III: Empirical NLTE Analysis of Fe I Lines
E. L. van Dessel 38, 351
- A Comparison of Three Solar Active Regions Based on Their Soft X-Ray Line Spectra
D. H. Brabban 38, 449
- On the Intensity of Helium and Hydrogen Lines in Quiescent Prominences with Filamentary Structure
N. N. Morozhenko 39, 349
- On 5694 Å Coronal Line Observations
E. I. Tetrushvili 39, 387
- High n Emission and Absorption Lines of the Sun (II)
A. Greve 40, 329
- Enhancement of the Solar X-Ray Line Intensities Due to Dielectronic Recombination as an Excitation Process
S. M. Razaullah Ansari and Badré Alam 41, 97
- On the Behaviour of the Hydrogen Lyman Series in Flares
L. D. de Feiter and Z. Švestka 41, 415
- The Analysis of a High Resolution X-Ray Spectrum of a Solar Active Region
John H. Parkinson 42, 183
- Abundance of Fe Relative to H at 1.5 Solar Radii
M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas 42, 487
- Line Intensities in the Photosphere-Chromosphere Transition Region. IV: Cr I and Metallic Ion Lines
E. L. van Dessel 44, 13
- Analysis of the Intensities and Profiles of the Spectral Line Mg XII 8.42 Å in the Solar X-Ray Spectrum
J. Jakimiec, V. V. Korneev, V. V. Krutov, I. A. Zhitnik, S. Płocieniak, B. Sylwester, and J. Sylwester 44, 391
- The Excitation of the Coronal Line 5303 Å
M. Waldmeier 45, 147
- The Analysis of XUV Emission Lines
George L. Withbroe 45, 301
- Observations of Helium and Hydrogen Emission in Quiescent Prominences
Rainer M. E. Illing, Donald A. Landman, and Donald L. Mickey 45, 339 *Errata* 58, 211
- On Green-to-Red Line Intensity Ratio in the Solar Corona
S. Chandra and U. Narain 46, 183
- Improved Solar Coronal Temperature for Equal Green and Red Line Intensities
Udit Narain and Suresh Chandra 47, 607
- Helium Emission from Model Flare Layers
John L. Kulander 48, 287
- Helium Emission in the Middle Chromosphere
M. A. Livshits, L. A. Akimov, I. L. Belkina, and N. P. Dyatel 49, 315
- Evidence for Temporal Variations of Coronal Emission Line Intensity and Profile
D. H. Liebenberg, R. J. Bessey, and B. Watson 50, 109
- Emission Measures and Structure of the Transition Region of a Sunspot from Emission Lines in the Far Ultraviolet
Chung-Chieh Cheng and O. Kjeldseth Moe 52, 327
- High n Solar Radio Recombination Lines
A. Greve 52, 423
- Coronal He⁺ λ304 Radiation
Imad A. Ahmad 53, 409
- The Si IV λ1393 Line in a Coronal Hole Compared to the Quiet Sun from OSO-8 Observations
Michael H. Francis and Robert Roussel-Dupré 53, 465
- Solar EUV Emission Line Profiles of Si II and Si III and Their Center to Limb Variations
K. R. Nicolas, G. E. Brueckner, R. Tousey, D. A. Tripp, O. R. White, and R. G. Athay 55, 305
- Excitation Equilibrium for Low Lying Levels in C II, N III, O IV, Ne VI, Mg VIII, Si X, and Si II
Suresh Chandra 58, 291
- The Radiative Relaxation Time in the Chromosphere
R. G. Giovanelli 59, 293

Density Dependence of Solar Emission Lines of Oxygen-Like Ions

P. K. Raju and B. N. Dwivedi **60**, 269

Brightness Fluctuations of Solar Ultraviolet Line Intensities during a Shock-Wave Passage

Giannina Poletto **61**, 389

Dependence of the Correlation of Small Scale Photospheric Structures upon Resolution

R. G. Teske and G. H. Elste **62**, 241

The Middle Balmer Decrement in Quiescent Prominences

Donald A. Landman and Michael Mongillo **63**, 87

Density Dependence of Solar Emission Lines of Boron-Like Ions

B. N. Dwivedi and P. K. Raju **68**, 111

Intensity of Lines from Low Lying Levels in C II, N III, O IV, Mg VIII, Si X, and Si II

Suresh Chandra **75**, 133

The $H\alpha/H\beta$ Ratio in Solar Flares

Harold Zirin, Margaret Liggett, and Alan Patterson **76**, 387

Comparison of Observed Ca XIX and Ca XVIII Relative Line Intensities with Current Theory

C. Jordan and N. J. Veck **78**, 125

Expected Intensities of Solar Forbidden Lines Emitted from $2p^k$ ($k=2,3,4$) Configurations

S. O. Kastner **85**, 41

Calculation of Coronal Line Intensities for Boron-Like Ions

H. P. Saha and E. Treffitz **87**, 233

On the Balmer : Paschen Ratio in Prominences

Jay M. Pasachoff, Eric J. Pilger, and Stephen R. Platt **89**, 31

A Line Identification List for the Solar Flare of 7 September, 1973 in the Wavelength Range 1335 Å-380 Å

J. G. Doyle **89**, 115

Line Ratios for Solar Ultra-Violet Lines of O V

J. G. Doyle, P. L. Dufton, F. P. Keenan, and A. E. Kingston **89**, 243

Weakening of the Solar Extreme-Ultraviolet Line Emission by Lyman Continuum Absorption as Derived from Line Ratios

Mitsuo Kanno, Yoshinori Suematsu, and Takara Nishikawa **91**, 71

Theoretical Emission Line Ratios for O VII in Low Density Plasmas

F. P. Keenan, S. S. Tayal, and A. E. Kingston **92**, 75

Diagnostic Application of Highly Ionized Iron Lines in the XUV Spectrum of a Solar Flare

H. E. Mason, A. K. Bhatia, S. O. Kastner, W. M. Neupert, and M. Swartz **92**, 199

Line Intensity Ratios of Transitions within the $1s^2 2s^2 2p^2$ Ground Configuration of Mg VII

K. M. Aggarwal **94**, 75

Theoretical Ne IX Line Ratios Compared to Solar Observations

F. P. Keenan, S. S. Tayal, and A. E. Kingston **94**, 85

Mg IX and Si XI Line Ratios in the Sun

F. P. Keenan, A. E. Kingston, P. L. Dufton, J. G. Doyle, and K. G. Widing **94**, 91

Clues to the Mode of Excitation of Fe X Ions in the Solar Corona from the 1980 Eclipse Observations

Jagdev Singh **95**, 253

Expected Intensities of Solar Neon-Like Ions

A. K. Bhatia and S. O. Kastner **96**, 11

Improved Theoretical Line Ratios for C III in the Sun

F. P. Keenan and K. A. Berrington **99**, 25

Spectral Line, Profiles
A Systematic Method for the Analysis of High-Resolution Fraunhofer Line Profiles

C. de Jager and L. Neven **1**, 27

A Peculiar Sodium 'Flare' on the Sun

E. A. Gurtovenko **1**, 389

Electron Density in Flares. I: Discussion of the Halfwidth Method

Z. Švestka and L. Fritzová-Švestková **2**, 75

Electron Density in Flares. II: Results of Measurements

L. Fritzová-Švestková and Z. Švestka **2**, 87

On the K Line of Ca II in Sunspots

O. Engvold **2**, 234

- The Evershed Effect as a Wave Phenomenon
P. Maltby and G. Eriksen 2, 249
- Center-to-Limb Analysis of the Solar Oxygen Lines
Edith A. Müller, Bodo Baschek, and Hartmut Holweger 3, 125
- Source Functions in the Cores of Infrared Fraunhofer Lines
C. de Jager and L. Neven 3, 159
- The Solar H and K Lines of Ionized Calcium
J. B. Zirker 3, 164
- Emission Cores in H and K Lines. I: The Optically Thick Chromosphere
R. Grant Athay and A. Skumanich 3, 181
- Contribution à l'étude du spectre solaire de l'hydrogène
Y. Cuny 3, 204
- A Measurement of the Solar H and K Profiles
O. R. White and Z. Suemoto 3, 523
- The Effect of Magneto-Sonic Waves on a Zeeman Triplet with Application to Sunspots
P. Maltby 4, 96
- Emission Cores in H and K Lines. IV: Center-to-Limb Variation
R. Grant Athay and A. Skumanich 4, 176
- A Generalized Theory for Line Formation in a Homogeneous Magnetic Field
Olav Kjeldseth Moe 4, 267
- On the Occurrence of Convective Motions in the Upper Photosphere
C. de Jager and L. Neven 4, 379
- Effect of Progressive Alfvén Waves on the Profiles of Solar Spectral Lines
P. Maltby 5, 3
- Spectral Observations of Spicules at Two Heights in the Solar Chromosphere
Jay M. Pasachoff, Robert W. Noyes, and Jacques M. Beckers 5, 131
- The Effect of Short-Periodic Oscillations in the Photosphere on the Spectral Line Profile
R. B. Teplitskaya 6, 18
- On Three-Dimensional Information Pictures of Chromospheric Spicules
S. G. Mamedov and E. Sh. Orudzhev 6, 41
- Abundances of Heavy Elements in the Sun
Nicolas Grevesse 6, 381
- Profiles of the H and K lines of Ca II in Disk Flares
J. McKim Malville, Einar Tandberg-Hanssen, and Dino Zei 7, 253
- Interferometric Investigation of the Red and Green Lines during the Total Eclipse of May 30, 1965
A. B. Delone and E. A. Makarova 9, 116
- The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. I: The Zeeman Triplet
J. M. Beckers 9, 372 *Erratum* 15, 507
- On π -Components in Zeeman-Split Lines of the Umbra Spectrum
J. P. Mehlretter 9, 387
- Ca II Resonance Lines in Non-Homogeneous Chromospheres
Herbert A. Beebe and Hollis R. Johnson 10, 79
- On the Spectrum of Granular and Intergranular Regions
R. Howard and A. Bhatnagar 10, 245
- Magnetograph Measurements with Temperature-Sensitive Lines
J. Harvey and W. Livingston 10, 283
- On the Asymmetry of Moustaches
A. N. Koval and A. B. Severny 11, 276
- Emission Cores in H and K Lines. V: Asymmetries in K₂ and K₃
R. Grant Athay 11, 347
- On the Relative Residual Intensities of the Calcium H and K Lines
Jeffrey L. Linsky 11, 355
- Observations of the Infrared Triplet of Singly Ionized Calcium
Jeffrey L. Linsky, Richard G. Teske, and Carol W. Wilkinson 11, 374
- Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. II: The Influence of Different Atmosphere Models and of a Magnetic Field Gradient
J. Staudé 12, 84 *Erratum* 15, 111

Velocity Effects on the Profiles of H α and Two Fe I Lines

R. G. Athay **12**, 175

Fine Structure in Ca II on the Solar Disc

Jay M. Pasachoff **12**, 202

Atomic-Beam Study of the Solar 7699 Å Potassium Line and the Solar Gravitational Red-Shift

J. L. Snider **12**, 352

Solar C II Resonance Line Profiles

R. A. Berger, E. C. Bruner, Jr., and R. J. Stevens **12**, 370

Zeeman Splitting of Molecular Lines in Sunspot Spectra

E. A. Mallia **14**, 125

Self-Reversal of the Lithium Resonance Doublet in Sunspots

P. Maltby and O. Engvold **14**, 129

Hale's Attempts to Determine the Sun's General Magnetic Field

Jan Olof Stenflo **14**, 263

Semi-Empirical Solar Line Blanketing. I: Statistical Basis and Method

J. P. Mutschlecner and Charles F. Keller **14**, 294

Transformation of the Absolute Solar Radiation Data into the 'International Practical Temperature Scale of 1968'

Dietrich Labs and Heinz Neckel **15**, 79

Europium and Lanthanum in Sunspot and in the Undisturbed Photosphere

G. Bachmann, K. Pflug, and J. Stauda **15**, 113

Mass Motion in the Solar Chromosphere

R. A. Jones and W. A. Rense **15**, 317

A Comparison of Computed and Observed Line Profiles and Flash Intensities in the Photosphere-Chromosphere Transition Region

E. L. J. van Dessel **15**, 322

Studies of Granular Velocities. II: Statistical Analysis of Two High-Resolution Spectrograms

J. P. Mehlretter **16**, 253 *Corrigendum 18*, 510

Determination of Solar Doppler Widths by Goldberg's Method

A. R. Dunn and E. C. Olson **16**, 272

Magnetically Non Split Lines in Penumbrae

G. Stellmacher and E. Wiehr **17**, 21

Formation of the Ca II K-Line Core with Arbitrary Temperature Minima

Herbert A. Beebe **17**, 304

On K-Line Central Reversals

Jay M. Pasachoff and Harold Zirin **18**, 27

Center Limb Observations of Inhomogeneities in the Solar Atmosphere. III: Time Dependent Fine Structure of the Ca II Emission

P. R. Wilson and C. D. Evans **18**, 29

Magnetically Non-Split Lines in Faculae

G. Stellmacher and E. Wiehr **18**, 220

A Power Spectrum Analysis of Granular Intensity Fluctuations and Velocities

H. Reiling **19**, 297

Absolute Intensity Calibrations of Solar K-Line Profiles

Jay M. Pasachoff **19**, 323

Inhomogeneities in the Solar Atmosphere from the Ca II Infra-Red Lines

Pierre Mein **20**, 3

Spectral Investigation of Chromospheric Fine Structure

Ulrich Grossmann-Doerth and Marina von Uexküll **20**, 31

The Use of the Goldberg-Unno Method for the Investigation of Small-Scale Photosphere Motions

E. Gurtovenko and V. Troyan **20**, 264

High Dispersion Spectroscopic Study of Quiescent Prominences

O. Engvold and W. Livingston **20**, 375

Spectral Lines from Photosphere to Chromosphere, Observed during the March 1970 Eclipse: A First Comparison with Theory

J. Houtgast, O. Namba, R. J. Rutten, and J. W. Wijnenga **21**, 281

Turbulent Velocity in Undisturbed and Active Photosphere

O. G. Badalyan and M. A. Livshits **22**, 297

Formation of the Solar H α Profile

Stephen A. Schoolman 22, 344

Multi-Component Models for the Formation of the Chromospheric Ca II K Line. II: The Effect of Velocity Fields

L. E. Cram 22, 375

Spectral Analyses of Solar Photospheric Fluctuations. II: Profile Fluctuations in the Wings of the $\lambda 5183.6$ Mg I b₁ Line

Frank N. Edmonds, Jr. 23, 47

Photoelectric Line Profiles in Umbral Spectra

T. D. Fay, A. A. Wyller, and H. S. Yun 23, 58

Empirical NLTE Analyses of Solar Spectral Lines. I: A Method and Some Applications to Earlier Analyses

Jan W. Wijnenga and Cornelis Zwaan 23, 265

A First Order Analysis of Variations of the Limb Darkening and the Shapes for Solar Fraunhofer Lines

R. G. Athay, B. W. Lites, O. R. White, and J. W. Brault 24, 18

Space and Time Variations of the Solar Na D Line Profiles

C. D. Slaughter and A. M. Wilson 24, 43

Spectral Analysis of Highly Inhomogeneous Chromospheric Flares

Z. Švestka 24, 154

Characteristics of the Ca II K-Line Profiles in the Quiet Sun

Sou-Yang Liu and Elske v. P. Smith 24, 301

The Solar Abundance of Silver

John E. Ross and Lawrence H. Aller 25, 30

High Resolution Spectroscopy of the Disk Chromosphere. II: Time Sequence Observations of Ca II H and K Emissions

P. R. Wilson, D. E. Rees, J. M. Beckers, and D. R. Brown 25, 86

On the Calculation of the $H(\alpha, \nu)$ -Function

M. G. Gerbil'skij 25, 274

The Empirical Determination of Line Source Functions, β_L -Values, and the Microturbulent and Convective Velocity Components as Functions of Depth in the Photosphere-Chromosphere Transition Region

C. de Jager and L. Neven 25, 277

Physical Properties of Solar Chromospheric Plages. I: Line Profiles of the Ca II H, K, and Infrared Triplet Lines

Richard A. Shine and Jeffrey L. Linsky 25, 357

The Formation of Mg I 4571 Å in the Solar Atmosphere. I: A Model Analysis of a One-Dimensional Static Atmosphere

Richard C. Altrock and C. J. Cannon 26, 21 *Erratum* 29, 285

The Interpretation of Absorption-Line Shifts in the Solar Spectrum

R. I. Kostik and T. V. Orlova 26, 42

Calculation of 5250.216 Å Line Profiles in Sunspots

A. R. Dunn 26, 83

Thallium in the Solar Atmosphere

D. L. Lambert, E. A. Mallia, and G. Smith 26, 250

Isotopes of Rubidium in the Sun

Øivind Hauge 26, 263

A Search for the Solar Sr 87 Content and the Solar Rb/Sr Ratio

Øivind Hauge 26, 276

Ca II K Emission Arches

H. A. Beebe and Hollis R. Johnson 27, 34

On the Size of the Structure Elements in the Solar Chromosphere

V. A. Krat 27, 39

Solar Isotopic Composition and Abundance of Europium

Øivind Hauge 27, 286

The Solar Manganese Abundance

Thomas E. Margrave, Jr. 27, 294

Theoretical Study of the Fraunhofer Lines Polarization: The Case of Ca I 4227

Simone Dumont, Alain Omont, and Jean-Claude Pecker 28, 271

Equator-Pole Temperature Difference and the Solar Oblateness

R. W. Noyes, T. R. Ayres, and D. N. B. Hall 28, 343

The Solar Temperature Distribution with LatitudeR. J. Rutten **28**, 347**A Mechanism for the Production of Light and Dark Contrasts in Radiatively Controlled Lines**K. B. Gebbie and R. Steinitz **29**, 3**Spectral Analysis of Sunspot Flares**Marcos E. Machado and Jorge R. Seibold **29**, 75**The Formation of Mg I 4571 Å in the Solar Atmosphere. II: The Effect of One-Dimensional Macroscopic Velocity Fields**Richard C. Altrock and C. J. Cannon **29**, 275 *Erratum 31, 524***High-Resolution Photography of the Solar Chromosphere. X: Physical Parameters of H α Mottles**R. J. Bray **29**, 317**Solar X-Ray Spectra Observed from the 'Intercosmos-4' Satellite and the 'Vertical-2' Rocket**Yu. I. Grineva, V. I. Karev, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, L. A. Vainstein, B. N. Vasilyev, and I. A. Zhitnik **29**, 441**Studies of Granular Velocities. III: The Influence of Finite Spectral and Spatial Resolution upon the Measurement of Granular Doppler Shifts**J. P. Mehlretter **30**, 19**The Formation of Mg I 4571 Å in the Solar Atmosphere. III: The Holweger Solar Model**Richard C. Altrock and C. J. Cannon **30**, 31**Spectroscopic Investigation of the Chromosphere. III: H α Line Profile from the Interior Supergranular Cells**Ulrich Grossmann-Doerth and Marina von Uexküll **30**, 71**The Solar Neutral Iron Spectrum. I: Measurement of Solar Fe I Line Profiles from Center to Limb**Bruce W. Lites and J. W. Brault **30**, 283**Non-LTE Line Formation in a Magnetic Field. II: The Influence of Non-Coherent Scattering on Line Contours**H. Domke and J. Staude **31**, 291**The Comparison of the Magnetographic Magnetic Field Measured in Different Spectral Lines**S. I. Gopasyuk, V. A. Kotov, A. B. Severny, and T. T. Tsap **31**, 307**The Solar Neutral Iron Spectrum. II: Profile Synthesis of Representative Fe I Fraunhofer Lines**Bruce W. Lites **32**, 283**Calculation of the Solar Chromospheric L α Profile Allowing for Partial Redistribution Effects**R. W. Milkey and Dimitri Mihalas **32**, 361**On the Interpretation of Some Peculiarities Observed in Zeeman-Split Line Contours in Sunspots**Jürgen Staude **32**, 403**An Interferometric Investigation of Emission Lines from the Solar Corona**P. M. Marshall and G. Henderson **33**, 153**The Influence of Molecular Blends and Non-Thermal Line Broadening on the Profile of the Zeeman Triplet λ 5250.22 in Sunspots**Olav Kjeldseth Moe **33**, 393**The Formation of Mg I 4571 Å in the Solar Atmosphere. IV: Empirical vs Synthetic Analyses**Richard C. Altrock **34**, 37**Non-LTE Profiles of the Al I Autoionization Lines**G. D. Finn and J. T. Jefferies **34**, 57**The Influence of a Photospheric Spectrum of Turbulence on the Profiles of Weak Fraunhofer Lines**Cornelis de Jager **34**, 91**The Profile and Polarization of the Coronal L α Line**Jacques M. Beckers and Eric Chipman **34**, 151**Theoretical Chromospheric Flare Spectra. I: Hydrogen Equilibrium for the Kinematic Flare-Shock Model of Nakagawa *et al.* (1973)**Richard C. Canfield and R. Grant Athay **34**, 193**The Determination of the Velocity Amplitude of the Total Photospheric Motion Field. I: The Use of the Weak and Moderately Weak Lines**N. N. Kondrashova and E. A. Gurtovenko **34**, 291**Theoretical Chromospheric Flare Spectra. II: Hydrogen Equilibrium for Brown's (1973) Models for Heating by Non-Thermal Electrons**Richard C. Canfield **34**, 339**Center-to-Limb Profiles of the Aluminum Autoionization Lines in the Solar Spectrum**Howard C. McAllister **35**, 3

- Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. II: Computation of Stokes Parameter Profiles
A. Wittmann 35, 11
- The Solar Abundance of Germanium
John E. Ross and Lawrence H. Aller 35, 281
- On Peculiarities of the H and K Ca II Lines of Quiescent Prominences
N. N. Morozhenko 35, 395
- The Solar Abundance of Beryllium
John E. Ross and Lawrence H. Aller 36, 11
- On the Asymmetry of Selected Fraunhofer Lines, II
R. I. Kostik and T. V. Orlova 36, 279
- Properties of the Solar Ca II K-Line at High Spatial Resolution
U. Grossman-Doerth, F. Kneer, and M. v. Uexküll 37, 85
- A Facular Model Based on the Wings of the Ca II Lines
Richard A. Shine and Jeffrey L. Linsky 37, 145
- High Resolution Spectroscopy of the Disk Chromosphere. III: Upward Moving Disturbances as Observed in the Ca II K-Line Wings
J. M. Beckers and G. Artzner 37, 309
- An Empirical Interpretation for the Time Evolution of the Ca II K Line
Sou-Yang Liu and Andrew Skumanich 38, 109
- On the Determination of the Photospheric Velocity Distribution from Profiles of Weak Fraunhofer Lines
R. J. Rutten, P. Hoyng, and C. de Jager 38, 321
- Partially Coherent Scattering Models for the Formation of the Chromospheric Ca II K Line
I. M. Vardavas and L. E. Cram 38, 367
- The Photospheric Barium Spectrum: Solar Abundance and Collision Broadening of Ba II Lines by Hydrogen
Hartmut Holweger and Edith A. Müller 39, 19
- Physical Properties of Solar Chromospheric Plages. II: Chromospheric Plage Models
Richard A. Shine and Jeffrey L. Linsky 39, 49
- On 5694 Å Coronal Line Observations
E. I. Tetrushvili 39, 387
- The Asymmetry of the H α Absorption Coefficient
A. Zelenka 40, 39
- The Solar Lithium Abundance. I: Observations of the Solar Lithium Feature at $\lambda 6707.8$ Å
James W. Brault and Edith A. Müller 41, 43
- Spectral Features to be Expected from Rotational and Expansional Motions in Fine Solar Structures
B. Rompolt 41, 329
- Interpretation of H α Contrast Profiles of Chromospheric Fine Structures
L. E. Cram 42, 53
- The Formation of Mg I 4571 Å in the Solar Atmosphere. V: The Multi-Dimensional Structure of the Photosphere and Low Chromosphere
Richard C. Altrock and C. J. Cannon 42, 289
- Spectral Investigation of the Chromosphere. V: Observation and Analysis of H β
U. Grossmann-Doerth and M. v. Uexküll 42, 303
- Flare Model Chromospheres and Photospheres
Marcos E. Machado and Jeffrey L. Linsky 42, 395
- The Potassium Abundance in the Solar Photosphere
Ramiro de la Reza and Edith A. Müller 43, 15
- Line Profile Analysis of a Coronal Formation Observed near a Quiescent Prominence: Intensities, Temperatures and Velocity Fields
Tokio Tsubaki 43, 147
- The Line Response Function of Stellar Atmospheres and the Effective Depth of Line Formation
Jacques M. Beckers and Robert W. Milkey 43, 289
- H and K Lines in the Sunspot Umbra: A Source Function and Doppler Width
R. B. Teplitskaya and S. A. Efendieva 43, 293
- Spectroscopic Investigation of the Chromosphere. IV: A Reassessment of the Cloud Model
C. J. Durrant 44, 41

Asymmetries of the Solar Ca II Lines

J. N. Heasley 44, 275

Coronal Emission Line Profile Observations at Total Solar Eclipses. II: 30 May 1965 Results, Deconvolution and Interpretation

D. H. Liebenberg, R. J. Bessey, and B. Watson 44, 345

Analysis of the Intensities and Profiles of the Spectral Line Mg XII 8.42 Å in the Solar X-Ray Spectrum

J. Jakimiec, V. V. Korneev, V. V. Krutov, I. A. Zhitnik, S. Płocieniak, B. Sylwester, and

J. Sylwester 44, 391

The Ability of Current Micro-Velocity Models to Represent Center-Limb Line Profiles

J. C. Evans and L. Testerman 45, 41

The Influence of Shock-Waves on UV-Emission-Lines

Lutz R. Elzner 45, 93

Temperature Variations in the Solar Photosphere. III: Kitt Peak Measurements of the Variations of Photospheric Line Profiles with the Heliographic Latitude

B. Caccin, R. Falciani, and A. Donati-Falchi 46, 29

Spectroscopic Far Ultraviolet Observations of Transition Zone Instabilities and Their Possible Role in a Pre-Flare Energy Build-Up

G. E. Brueckner, N. P. Patterson, and V. E. Scherrer 47, 127 *Erratum/Replacement Figures: Figs.*

1, 2, 3, 5, 10, 11 - 53, 547

Applications of Fourier Analysis to Broadening of Stellar Line Profiles. V: Effects of Finite Sized Eddies on Solar Lines

Myron A. Smith and H. Frisch 47, 461

Measurements of Solar Magnetic Fields by Fourier Transform Techniques. II: Saturated and Blended Lines

Theodore D. Tarbell and Alan M. Title 47, 563

Shapes and Centre-to-Limb Variation of the H and K Lines in Sunspot Umbrae

R. B. Teplitskaya and N. M. Firstova 48, 103

Quelques résultats d'observation des spicules chromosphériques en K et D3

Z. Mouradian et I. Soru-Escaut 50, 69

A Study of the He I 10830 Line Emission from Quiescent Prominences

Donald A. Landman 50, 383

Extreme Limb Observations of Ba II λ 4554 and Mg I λ 4571

Robert J. Rutten 51, 3

The Helium 10830 Å Line in the Undisturbed Chromosphere

R. G. Giovanelli and D. Hall 52, 211

The Effects of Partial Redistribution on Facular K Line Profiles

J. N. Heasley, F. Kneer, and G. A. Chapman 52, 309

Emission Measures and Structure of the Transition Region of a Sunspot from Emission Lines in the Far Ultraviolet

Chung-Chieh Cheng and O. Kjeldseth Moe 52, 327

On the Asymmetry of Selected Fraunhofer Lines

R. I. Kostik and T. V. Orlova 53, 353

A Measurement of the Helium D₃ Profile with a Birefringent Filter

Barry J. LaBonte 53, 369

An Empirical, Statistical Model for the Formation of the Cores of Chromospheric Fraunhofer Lines

Z. Suemoto 54, 3

The Results of Statistical Analysis of the Coronal Profiles above the Solar Active Regions

E. I. Tetrushvili 54, 135

Solar EUV Emission Line Profiles of Si II and Si III and Their Center to Limb Variations

K. R. Nicolas, G. E. Brueckner, R. Tousey, D. A. Tripp, O. R. White, and R. G. Athay 55, 305

Spectral Investigation of the Chromosphere. VI: Observations of H α Close to the Limb

U. Grossmann-Doerth and Marina von Uexküll 55, 321

Empirical NLTE Analysis of Solar Spectral Lines. II: The Formation of the Ba II λ 4554 Resonance Line

Robert J. Rutten 56, 237

Observed and Theoretical Profiles of the Si II Lines at λ 1814

G. D. Finn and H. C. McAllister 56, 263

Variation of the Profiles of Medium-Strong Photospheric Lines with Heliographic Latitude

B. Caccin, R. Falciani, and A. Donati Falchi 57, 13

- Resonance Line Scattering from Optically Thin Structures Located above the Solar Limb
L. E. Cram and I. M. Vardavas **57**, 27
- Some Comments on Suemoto's Paper 'An Empirical, Statistical Model for the Formation of the Cores of Chromospheric Fraunhofer Lines'
L. E. Cram, C. J. Durrant, and U. Grossmann-Doerth **58**, 279
- Solar He II (304 Å) and Si XI (303 Å) Line Profiles
G. W. Cushman and W. A. Rense **58**, 299
- Calculation of Line Profiles of Inhomogeneous Solar Formations
L. N. Kurochka and V. V. Telnuk-Adamchuk **59**, 11
- Turbulence in Stellar Atmospheres (*Invited Review Paper*)
David F. Gray **59**, 193
- Observations of the Mg I and II Resonance Lines in an Active Region
Marc S. Allen and Howard C. McAllister **60**, 251
- Supergranular Line Profile Variation of Mg I λ 2852
Marc S. Allen **60**, 265
- Profiles of H I ($\text{L}\alpha$), Mg II (h and k), Ca II (H and K) Lines of an Active Filament at the Limb, with the LPSP Instrument aboard the OSO-8 Satellite
I. C. Vial, P. Gouttebroze, G. Artzner, and P. Lemaire **61**, 39
- On Depth-Dependence of Photospheric Oscillations
A. Koch, G. Küveler, and E. H. Schröter **64**, 13
- Echelle Observations of C III λ 1909 and Si III λ 1892
Marc S. Allen **64**, 71
- On Asymmetries of Solar Spectral Lines
Claude Barambon and Edith A. Müller **64**, 201
- Observations of Chromospheric Lines from OSO-8
Ulrich Grossmann-Doerth, Franz Kneer, Marina v. Uexküll, Guy E. Artzner, and Jean Claud Vial **66**, 3
- Observed $\text{L}\alpha$ Profiles for Two Solar Flares: 14:12 UT 15 June, 1973 and 23:16 UT 21 January, 1974
Richard C. Canfield and M. E. VanHoosier **67**, 339
- H α Flare Spectra
Stephen A. Schoolman and Eric D. Ganz **70**, 363
- Quiet Sun Observations of the Al I Autoionization Lines λ 1932 and λ 1936
J. W. Cook and O. Kjeldseth Moe **76**, 109
- On the Centre-to-Limb Variation and Latitude Dependence of the Asymmetry and Wavelength Shift of the Solar Line λ 5576
P. N. Brandt and E. H. Schröter **79**, 3
- A Statistical Analysis of Na I D₁ Profile Fluctuations at the Center of the Solar Disk. I: Data Reduction and Resolvable Velocities
Frank N. Edmonds, Jr. and Jin-Chung Hsu **83**, 217
- On the Mass Motions and the Atmospheric States of Moustaches
Reizaburo Kitai **87**, 135
- Asymmetries in Stokes Profiles of Magnetic Lines: a Linear Analysis in Terms of Velocity Gradients
E. Landi Degl'Innocenti and M. Landolfi **87**, 221
- Space and Time Variations of K I 7699 Solar Line Profile
T. Roca-Cortes, M. Vazquez, and H. Wöhl **88**, 1
- Bidimensional Analysis of Solar Active Regions and Flares. I: Imaging Spectroscopy with Universal Birefringent Filters
B. Caccin, R. Falciani, G. Roberti, A. M. Sambuco, and I. A. Smaldone **89**, 323
- Simultaneous H and K Ca II, h and k Mg II, $\text{L}\alpha$ and $\text{L}\beta$ H I Profiles of the April 15, 1978 Solar Flare Observed with the OSO-8/L.P.S.P. Experiment
P. Lemaire, M. Choucq-Bruston, and J.-C. Vial **90**, 63
- Fraunhofer Line Profiles
A. Keith Pierce **90**, 195
- On the Temperature Structure of Sunspot Umbrae
A. A. van Ballegoijen **91**, 195
- The Solar O I λ 7773 Triplet. I: Spatially Resolved Profiles
A. Kavetsky and B. J. O'Mara **92**, 47

H α Red Asymmetry of Solar Flares

K. Ichimoto and H. Kurokawa **93**, 105

Asymmetries and Wavelengths of Solar Spectral Lines and the Solar Rotation Determined from Fourier-Transform Spectra

Horst Balthasar **93**, 219

Comparison of UV Spectra from Solar-Type Stars

A. Greve and W. Wamsteker **94**, 3

High-Resolution Spectroscopy of Active Regions. 2: Line-Profile Interpretation, Applied to an Emerging Flux Region

J. J. Brants **95**, 15

The Solar O I $\lambda 7773$ Triplet. II: Analysis Using Line Inversion Techniques

A. Kavetsky and B. J. O'Mara **96**, 1

The Kinematic Processes in Solar Prominences and Flares and Their Spectral Features

Ye Shi-Hui and Jin Jie-Hai **96**, 113

Variations of the Asymmetry of Disk-Integrated Solar Line Profiles

David H. Bruning and Barry LaBonte **97**, 1

Spectral Line, Theory
A Systematic Method for the Analysis of High-Resolution Fraunhofer Line Profiles

C. de Jager and L. Neven **1**, 27

The Influence of Doubly Excited Levels on the Ionization Formula for the Solar Corona

Walter van Rensbergen **1**, 354

The Evershed Effect as a Wave Phenomenon

P. Maltby and G. Eriksen **2**, 249

Emission Cores in H and K Lines. I: The Optically Thick Chromosphere

R. Grant Athay and A. Skumanich **3**, 181

Contribution à l'étude du spectre solaire de l'hydrogène

Y. Cuny **3**, 204

The Importance of Temperature Variations in the Formation of Line Profiles

H. Nussbaumer **3**, 349

The Effect of Magneto-Sonic Waves on a Zeeman Triplet with Application to Sunspots

P. Maltby **4**, 96

Emission Cores in H and K Lines. IV: Center-to-Limb Variation

R. Grant Athay and A. Skumanich **4**, 176

A Generalized Theory for Line Formation in a Homogeneous Magnetic Field

Olav Kjeldseth Moe **4**, 267

On the Occurrence of Convective Motions in the Upper Photosphere

C. de Jager and L. Neven **4**, 379

Effect of Progressive Alfvén Waves on the Profiles of Solar Spectral Lines

P. Maltby **5**, 3

The Effect of Short-Periodic Oscillations in the Photosphere on the Spectral Line Profile

R. B. Teplitskaya **6**, 18

Source Functions of Infrared Fraunhofer Lines from Equivalent Widths

Richard C. Altrock **7**, 3

Interpretation of Infrared Oxygen Spectroheliograms

Richard C. Altrock **7**, 343

On the Frequency Dependence of the Line Source Function

Gordon Worrall **8**, 18

Le Fe XII dans la couronne d'émission

J.-P. Rozelot **8**, 91

Analysis of the Chromospheric Hydrogen Spectrum at the 1962 Eclipse

William Henze, Jr. **9**, 65

The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. I: The Zeeman Triplet

J. M. Beckers **9**, 372 *Erratum 15, 507*
Ca II Resonance Lines in Non-Homogeneous Chromospheres

Herbert A. Beebe and Hollis R. Johnson **10**, 79

- A Solar Spicule Model Based upon Calcium II K Line Radiative Transfer Studies
Lorne W. Avery and Lewis L. House **10**, 88
- The Excitation of the Forbidden Coronal Lines. I: Fe XIII $\lambda\lambda 10747$, 10798 and 3388
R. A. Chevalier and D. L. Lambert **10**, 115
- The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. II: Zeeman Multiplets for Dipole and Quadrupole Radiation
J. M. Beckers **10**, 262
- Line Formation in a Magnetic Field
David E. Rees **10**, 268
- Determination of Electron Density in Plasma by the Number of the Extreme Resolved Line
L. N. Kurochka and L. B. Maslennikova **11**, 33
- The Excitation Equilibrium of Coronal Ions
J. B. Zirker **11**, 68
- The Excitation of the Forbidden Coronal Lines. II: [Ca XV] $\lambda\lambda 5694$ and 5446
R. A. Chevalier and D. L. Lambert **11**, 243
- Emission Cores in H and K Lines. V: Asymmetries in K_2 and K_3
R. Grant Athay **11**, 347
- On the Relative Residual Intensities of the Calcium H and K Lines
Jeffrey L. Linsky **11**, 355
- On the Frequency Dependence of the Line Source Function
Richard C. Canfield **12**, 63
- The Helium-Like Calcium, Silicon, and Sulfur Lines during the Decay of a Large Flare
G. A. Doschek and J. F. Meekins **13**, 220 *Erratum 28, 517*
- On Temperature in Line-Gap Regions
U. Grossmann-Doerth **13**, 287
- The Formation of the Ca II Line in a Spinning Spicule
Lorne W. Avery **13**, 301
- The Umbral Flash as a Magneto-Acoustic Wave Phenomenon
Ove Havnes **13**, 323
- Semi-Empirical Solar Line Blanketing. I: Statistical Basis and Method
J. P. Mutschlecner and Charles F. Keller **14**, 294
- Some Conclusions from the Direct Comparison between the Observations and the Theory of Solar Disk Polarization
Jean-Claude Pecker **15**, 88
- Improved Solar Wavelengths between 7780 and 7925 Å
A. T. Young and R. A. Schorn **15**, 97
- Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. III: Calculations for Different Spot Models and Arbitrary Depth Dependence of the Magnetic Field Vector
J. Staude **15**, 102
- A Three-Component Model for the Formation of the Chromospheric Ca II K Line
P. R. Wilson **15**, 139
- High Quantum Number Emission and Absorption Lines of Fe VIII, Fe XV, O III, O VII of the Sun
A. Greve **15**, 380
- Theoretical Intensities of Fe XIV in the Solar EUV Spectrum
M. Blaha **17**, 99
- A Generalized Analytic Solution to the Equations of Transfer in a Magnetic Field
Jürgen Staude **18**, 22
- Remarks on Some Recent Papers Concerning Line Formation in a Magnetic Field
Jürgen Staude **18**, 24
- The Helium Radiation in Prominences
N. A. Yakovkin and M. Yu. Zeldina **19**, 414
- A Measurement of the Non-Thermal Velocity in the Low Chromosphere
Richard C. Canfield **20**, 275
- On the Solution of the Transfer Equation System for a Non-Scattering Medium with a Homogeneous Magnetic Field
J. M. Katz **20**, 362

On Magneto-Optical Effects in Sunspots

A. Wittmann 20, 365

Observations of the Infrared Fe XIII Lines in the Solar Corona of 12 November, 1966

Paul L. Byard and Kenneth E. Kissell 21, 351

Note on the Helium-Like Ion Line Emission in Solar Plasmas

R. Mewe 22, 114

Formation of the Solar H α Profile

Stephen A. Schoolman 22, 344

Multi-Component Models for the Formation of the Chromospheric Ca II K Line. II: The Effect of Velocity Fields

L. E. Cram 22, 375

Intensity Fluctuations in Fraunhofer Lines

Frank Q. Orrall 23, 30

On the Calculation of the $H(\alpha, \nu)$ -Function

M. G. Gerbil'skij 25, 274

The Interpretation of Absorption-Line Shifts in the Solar Spectrum

R. I. Kostik and T. V. Orlova 26, 42

Suggested Interpretation of the Correlations in Intensity Fluctuations in the Lines Ca II H and K, Magnesium b and Hydrogen H β

Richard N. Thomas 27, 303

Theoretical Study of the Fraunhofer Lines Polarization: The Case of Ca I 4227

Simone Dumont, Alain Omont, and Jean-Claude Pecker 28, 271

A Mechanism for the Production of Light and Dark Contrasts in Radiatively Controlled Lines

K. B. Gebbie and R. Steinitz 29, 3

Non-Thermal Ionization and Recombination Processes during Solar Flares

M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 29, 93

The Formation of Mg I 4571 Å in the Solar Atmosphere. II: The Effect of One-Dimensional Macroscopic Velocity Fields

Richard C. Altrock and C. J. Cannon 29, 275 *Erratum* 31, 524

Non-LTE Line Formation in a Magnetic Field. I: Non-Coherent Scattering and True Absorption

H. Domke and J. Staude 31, 279

Non-LTE Line Formation in a Magnetic Field. II: The Influence of Non-Coherent Scattering on Line Contours

H. Domke and J. Staude 31, 291

Calculation of the Solar Chromospheric L α Profile Allowing for Partial Redistribution Effects

R. W. Milkey and Dimitri Mihalas 32, 361

On the Interpretation of Some Peculiarities Observed in Zeeman-Split Line Contours in Sunspots

Jürgen Staude 32, 403

Temperature Variations in the Solar Photosphere. II: Temperature Sensitivity of Some Fraunhofer Lines

B. Caccin, A. Donati-Falchi, and R. Falciani 33, 49

Non-LTE Profiles of the Al I Autoionization Lines

G. D. Finn and J. T. Jefferies 34, 57

Line Broadening Calculations for Some Infrared Solar Fraunhofer Lines

Ghislain Derudder and Walter van Rensbergen 34, 77

The Influence of a Photospheric Spectrum of Turbulence on the Profiles of Weak Fraunhofer Lines

Cornelis de Jager 34, 91

Stationary Equations of Hydrogen Excitation and Ionization in Prominences

Ts. Chultem and N. A. Yakovkin 34, 133

The Profile and Polarization of the Coronal L α Line

Jacques M. Beckers and Eric Chipman 34, 151

Non-Thermal Line Broadening in the Solar Chromosphere

R. A. E. Fosbury 34, 309

On Peculiarities of the H and K Ca II Lines of Quiescent Prominences

N. N. Morozhenko 35, 395

High n Emission and Absorption Lines of the Sun

A. Greve 36, 85

- Neutron Propagation and 2.2 MeV Gamma-Ray Line Production in the Solar Atmosphere
H. T. Wang and R. Ramaty **36**, 129
- On the Asymmetry of Selected Fraunhofer Lines, II
R. I. Kostik and T. V. Orlova **36**, 279
- Observations of Resonance Polarization in Ca I λ 4227
J. O. Stenflo **37**, 31
- On the Average Optical Depth of Formation of Weak Fraunhofer Lines
E. Gurtovenko, V. Ratnikova, and C. de Jager **37**, 43
- On the Determination of the Photospheric Velocity Distribution from Profiles of Weak Fraunhofer Lines
R. J. Rutten, P. Hoyng, and C. de Jager **38**, 321
- Partially Coherent Scattering Models for the Formation of the Chromospheric Ca II K Line
I. M. Vardavas and L. E. Cram **38**, 367
- The Asymmetry of the $H\alpha$ Absorption Coefficient
A. Zelenka **40**, 39
- On the Broadening and Shift of Spectral Lines
Walter van Rensbergen, Elise de Doncker, and Ghislain Derudder **40**, 303
- Enhancement of the Solar X-Ray Line Intensities Due to Dielectronic Recombination as an Excitation Process
S. M. Razaullah Ansari and Badré Alam **41**, 97
- Supplementary Remarks to 'On the Average Depth of Formation of Weak Fraunhofer Lines' by E. Gurtovenko,
V. Ratnikova and C. de Jager
E. A. Gurtovenko and V. A. Ratnikova **42**, 43
- Emission of Helium in Prominences and the Chromosphere
N. N. Morozhenko **42**, 71
- The Line Response Function of Stellar Atmospheres and the Effective Depth of Line Formation
Jacques M. Beckers and Robert W. Milkey **43**, 289
- Asymmetries of the Solar Ca II Lines
J. N. Heasley **44**, 275
- The Influence of Shock-Waves on UV-Emission-Lines
Lutz R. Elzner **45**, 93
- The Prominence Radiation Theory
N. A. Yakovkin and M. Yu. Zeldina **45**, 319
- The Effective Optical Depth for the Formation of Absorption Lines
Mitsugu Makita **51**, 43
- Coronal $\text{He}^+ \lambda 304$ Radiation
Imad A. Ahmad **53**, 409
- Improved Values for the Solar Micro- and Macro-Turbulent Filter Functions
Cornelis de Jager and Jan Vermue **54**, 313
- Observed and Theoretical Profiles of the Si II Lines at $\lambda 1814$
G. D. Finn and H. C. McAllister **56**, 263
- Resonance Line Scattering from Optically Thin Structures Located above the Solar Limb
L. E. Cram and I. M. Vardavas **57**, 27
- The Last Observable Line in Hydrogen Emission Spectrum
L. N. Kurochka and L. B. Ribko **57**, 319
- The Seven Components of $H\alpha$ and the 9873 MHz Line
A. Zelenka **58**, 17
- Some Comments on the Limb Shift of Solar Lines. II: The Effect of Granular Motions
Jacques M. Beckers and George Driver Nelson **58**, 243
- Spatial Structure in Lines in the 3398-3526 Å Region at the Extreme Limb: Observations, Identification and Interpretation
Richard C. Canfield, Jay M. Pasachoff, Robert E. Stencel, and Jacques M. Beckers **58**, 263
- Calculation of Line Profiles of Inhomogeneous Solar Formations
L. N. Kurochka and V. V. Telnyuk-Adamchuk **59**, 11
- Density Dependence of Solar Emission Lines of Oxygen-Like Ions
P. K. Raju and B. N. Dwivedi **60**, 269
- On the Nonthermal Excitation and Polarization of X-Ray Lines during Small Flares
Eberhard Haug **61**, 129

The Balmer 9 and Balmer 11 Lines of He II in the SunJ. C. Raymond, R. W. Noyes, and M. P. Stoppa **61**, 271**Iron K α -Fluorescence in Solar Flares: A Probe of the Photosphere Iron Abundance**Taeil Bai **62**, 113 *Erratum 64, 417***Magneto-Optical Effects and the Interpretation of Linearly Polarized Intensity Distributions Observed with a Vector Magnetograph**E. Landi Degl'Innocenti **63**, 237**Mass Flow and the Validity of Ionization Equilibrium on the Sun**JoAnn Joselyn, R. H. Munro, and T. E. Holzer **64**, 57**Density Dependence of Solar Emission Lines of Boron-Like Ions**B. N. Dwivedi and P. K. Raju **68**, 111**Non-Maxwellian Velocity Distribution Functions Associated with Steep Temperature Gradients in the Solar Transition Region. II: The Effect of Non-Maxwellian Electron Distribution Functions on Ionization Equilibrium Calculations for Carbon, Nitrogen and Oxygen**Robert Roussel-Dupré **68**, 265**Electron Impact Polarization of X-Ray Lines from Hydrogen-Like Ions during Solar Flares**Eberhard Haug **71**, 77**Comparison of Observed Ca XIX and Ca XVIII Relative Line Intensities with Current Theory**C. Jordan and N. J. Veck **78**, 125**Scaling-Law Equilibria for Calcium in Canopy-Type Models of the Solar Chromosphere**Harrison P. Jones **79**, 279**Analysis of the High Resolution Mg XI X-Ray Spectra. III: Non-Thermal Interpretation of Some Spectra**M. Siarkowski, J. Sylwester, G. Bromboszcz, V. V. Korneev, S. L. Mandelshtam, S. N. Oparin, A. M. Urnov, and I. A. Zhitnik **81**, 63**Helium Radiation Diffusion in Prominences**N. A. Yakovkin, M. Yu. Zeldina, and Ch. Lhagvazhav **81**, 339**Line Ratios for Solar Ultra-Violet Lines of OV**J. G. Doyle, P. L. Dufton, F. P. Keenan, and A. E. Kingston **89**, 243**Line Width Observation of He II 4686 Å and He I 4713 Å in the Chromosphere**Tadashi Hirayama and Makoto Irie **90**, 291**The Effect of a Non-Maxwellian Electron Velocity Distribution on Be-Like Ion Diagnostics in the Sun**F. P. Keenan **91**, 27**On the Excitation of Lower Levels of Singlet Helium in Quiescent Prominences**N. N. Morozhenko **92**, 153**Clues to the Mode of Excitation of Fe X Ions in the Solar Corona from the 1980 Eclipse Observations**Jagdev Singh **95**, 253**The Solar O I λ 7773 Triplet. II: Analysis Using Line Inversion Techniques**A. Kavetsky and B. J. O'Mara **96**, 1**Non-LTE Resonance Line Polarization with Partial Redistribution: The Solar Ca II K Line**G. J. Saliba **98**, 1**Spectrum****Clarification in the Identification of Certain Lines in the Infrared Solar Spectrum**Earl F. Montgomery **10**, 60**Solar Flares and Solar Wind Helium Enrichments: July 1965-July 1967**J. Hirshberg, S. J. Bame, and D. E. Robbins **23**, 467**Solar Rotation: The Photospheric Height Gradient**W. Livingston and R. Milkey **25**, 267**The Absorption Spectrum of Atmospheric Water Vapor in the Vicinity of the He 10830 Å Triplet**James B. Breckinridge and Donald N. B. Hall **28**, 15**Telluric Lines in the Vicinity λ 5250 and λ 6562 Å**W. Livingston and L. Ramsey **31**, 317**Neutron Propagation and 2.2 MeV Gamma-Ray Line Production in the Solar Atmosphere**H. T. Wang and R. Ramaty **36**, 129**Isotopes of Samarium in the Sun**A. Ekeland and Ø. Hauge **42**, 17

Observations of Solar Gamma Ray Continuum between 360 keV and 7 MeV on August 4, 1972

A. N. Suri, E. L. Chupp, D. J. Forrest, and C. Reppin 43, 415

On the Accuracy of Line-of-Sight Velocity Measurements Using Telluric Lines as Reference Lines

N. I. Kobanov 99, 21

Energetic Ions in Solar γ -Ray Flares (*Invited Review Paper*)

Hugh S. Hudson 100, 515

Spectrum, Continuum

The High-Dispersion Continuous Ultraviolet Solar Spectrum and the Balmer-Jump

J. Houtgast 3, 47

Effects of Line Blanketing on the Solar Windows

Duane Carbon, Owen Gingerich, and Robert Kurucz 3, 55

Limb-Darkening Observations between 1800 and 2900 Å

R. M. Bonnet and J. E. Blamont 3, 64

The Solar Continuum from 900 to 130000 Å and the Photospheric Temperature Model

A. Sauval 3, 89

Contribution à l'étude du spectre solaire de l'hydrogène

Y. Cuny 3, 204

Emission Gradients in the Continuum at the Sun's Limb

Eijiro Hiei and James E. Faller 3, 513

On the Chromospheric Observations at the 1962 Eclipse

William Henze, Jr. 9, 56

Far Infrared Measurement of the Solar Minimum Temperature

John A. Eddy, Pierre J. Léna, and Robert M. MacQueen 10, 330

Measurements in the Solar Spectrum between 1400 and 1875 Å with a Rocket-Borne Spectrometer

W. H. Parkinson and E. M. Reeves 10, 342

Can the Ion H_3^+ Account for Missing Opacity in the Solar Ultraviolet?

Jeffrey L. Linsky 11, 198

The UV Continuum 1450-2100 Å and the Problem of the Solar Temperature Minimum

K. G. Widing, J. D. Purcell, and G. D. Sandlin 12, 52

Recombination Edges Observed in Solar Soft X-Ray Flare Spectra

J. F. Meekins and G. A. Doschek 13, 213

On the Continuum Intensity of the Umbra of Large Sunspots

P. Maltby 13, 312

Transformation of the Absolute Solar Radiation Data into the 'International Practical Temperature Scale of 1968'

Dietrich Labs and Heinz Neckel 15, 79

The Solar Lyman Continuum and the Structure of the Solar Chromosphere

Robert W. Noyes and Wolfgang Kalkofen 15, 120

Continuum Windows in Spectra of Umbrae (4000-8000 Å)

H. Wöhl 15, 338

Empirical Solar Continuum Models

J. L. Remo 16, 288

Interpretation of the Solar Continuum from 1680 to 600 Å. Model of the Transition Region Photosphere-Chromosphere and of the Chromosphere

Yvette Cuny 16, 293

Spectropolarimetric Analysis of the Solar Corona during the 12 November, 1966 Total Eclipse

B. Caccin, G. Moschi, M. Rigutti, and R. Falciani 17, 89

Evidence for the Photospheric Origin of the Flare Optical Continuum

Marcos E. Machado 17, 389

Remarks on the Convergency of Photospheric Model Conceptions and the Solar Quasi Continuum

Dietrich Labs and Heinz Neckel 22, 64

Inhomogeneous Structure of the Solar Chromosphere from Lyman-Continuum Data

J. E. Vernazza and R. W. Noyes 22, 358

The Chromosphere in Continuum Emission Observed at the Total Solar Eclipse on 7 March 1970

Mitsugu Makita 24, 59

On the Temperature of the Helium Emission Regions in the Solar Atmosphere

R. A. Gulyaev 24, 72

A Search for Continuous Ultraviolet Opacity Sources in the Sun's Photosphere

Egidio Landi Degl'Innocenti and Giancarlo Noci 29, 287

The Near Ultra-Violet Flux of the Harvard Smithsonian Reference Atmosphere

R. A. Bell 29, 299

Some Remarks on Line Weakenings in Photospheric Faculae

B. Caccin, R. Falciani, and A. Donati-Falchi 35, 41

The Continuum of the Extreme Limb and the Chromosphere at the 1970 Eclipse

H. Kurokawa, K. Nakayama, T. Tsubaki, and M. Kanno 36, 69

Structure of Sunspots. II: A Continuum Model Atmosphere for Dark Umbral Cores

Cornelis Zwaan 37, 99

The Solar-Flare Infrared Continuum

K. Ohki and H. S. Hudson 43, 405

The Solar-Flare Infrared Continuum: Observational Techniques and Upper Limits

H. S. Hudson 45, 69

On the Origin of the Flare Optical Continuum

Marcos E. Machado 49, 91

The EUV Continuum Emission (1400-1960 Å) in a Solar Flare Observed from Skylab

Chung-Chieh Cheng and O. Kjeldseth Moe 59, 361

Improved Data of Solar Spectral Irradiance from 0.33 to 1.25 μ

Heinz Neckel and Dietrich Labs 74, 231

The Solar Radiation between 3300 and 12500 Å

Heinz Neckel and Dietrich Labs 90, 205 Errata 92, 391

Wavelength-Dependence of EUV Continuum Absorption

Takara Nishikawa 93, 37

Spectrum, Extreme Ultraviolet

Oscillator Strengths for Resonance Lines of Some Silicon and Sulfur Ions

Sidney O. Kastner 2, 196

The Solar Corona above Active Regions: A Comparison of Extreme Ultraviolet Lines with Radio Emission

Werner M. Neupert 2, 294

The Relative Intensities of C I Lines in the Solar EUV Spectrum

Carole Jordan 2, 441

The Relative Abundance of Silicon and Iron in the Solar Corona

Carole Jordan and S. R. Pottasch 4, 104

The O VI Emission from the Sun

Ben-Zion Kozlovsky and Harold Zirin 5, 50

The X-Ray and Extreme Ultraviolet Radiation of the August 28, 1966 Proton Flare as Deduced from Sudden Ionospheric Disturbance Data

R. F. Donnelly 5, 123

Calcul des probabilités de transition pour divers états excités du Fe XII

J.-P. Rozelot 6, 49

OSO-III: Preliminary Scientific Results

John C. Brandt 6, 171

Solar Extreme Ultraviolet Emissions in the Range 260-1300 Å Observed from OSO-III

H. E. Hinteregger and L. A. Hall 6, 175

The Energy Distribution in the Solar EUV Spectrum and Abundance of Elements in the Solar Atmosphere

G. M. Nikolsky 6, 399

Le Rayonnement X du soleil lors de l'éclipse du 20 Mai 1966

G. Simon 7, 295

Solar Photography in the Extreme Ultraviolet

W. M. Burton 8, 53

Le Fe XII dans la couronne d'émission

J.-P. Rozelot 8, 91

Enhancement of Ionizing Radiation during a Solar Flare

O. K. Garriott, A. V. Da Rosa, M. J. Davis, L. S. Wagner, and G. D. Thome 8, 226

Interpretation of XUV Spectroheliograms

Harold Zirin 9, 77

- Solar XUV Limb Brightening Observations. I: The Lithium-Like Ions
George L. Withbroe 11, 42
- The Excitation Equilibrium of Coronal Ions
J. B. Zirker 11, 68
- Solar XUV Limb Brightening Observations. II: Lines Formed in the Chromospheric-Coronal Transition Region
George L. Withbroe 11, 208
- Extreme Ultraviolet Observations of Active Regions in the Chromosphere and the Corona
Robert W. Noyes, George L. Withbroe, and Robert P. Kirshner 11, 388
- The Solar Limb Emission Spectrum between 300 Å and 2803 Å
W. M. Burton and A. Ridgeley 14, 3
- Grazing Incidence Spectra of the Sun
F. F. Freeman and B. B. Jones 15, 288
- Theoretical Intensities of Fe XIV in the Solar EUV Spectrum
M. Blaha 17, 99
- A Comparison of Solar EUV Intensities and K-Coronameter Measurements
George L. Withbroe 18, 458
- Electron Densities Derived from Line Intensity Ratios: Beryllium Isoelectronic Sequence
Richard H. Munro, A. K. Dupree, and George L. Withbroe 19, 347
- On the Accuracy of Hartree-Fock Theoretical Wavelengths in the XUV
J. P. Connerade 21, 40
- XUV Image of the Sun from Eclipse Observations of the Ionospheric E-Region
R. T. Marriott, D. E. St. John, R. M. Thorne, and S. V. Venkateswaran 21, 483
- Observed Heights of EUV Lines Formed in the Transition Zone and Corona
George W. Simon and Robert W. Noyes 22, 450
- The Interpretation of XUV Rocket Measurements of Intensity Ratios of Solar Spectral Lines of the Lithiumlike Ions O VI, Ne VIII, and Mg X
L. Heroux, M. Cohen, and Monique Malinovsky 23, 369
- EUV Observations of the Chromospheric Network
E. M. Reeves and W. H. Parkinson 24, 113
- Solar Flares in the EUV Observed from OSO-5
P. T. Kelly and W. A. Rense 26, 431
- A Model for the Polar Transition Layer and Corona for November 1967
George L. Withbroe and Yi-Ming Wang 27, 394
- The Extreme Ultraviolet Emissions of Solar Flares: A Comparison between OSO-6 Spectroheliograph Observations and SFDs
R. F. Donnelly, A. T. Wood, Jr., and R. W. Noyes 29, 107
- Extreme Ultraviolet Emission from Chromospheric Inhomogeneities. An Analysis of the Extreme Ultraviolet Flash Spectrum of the Sun
G. E. Brueckner and K. R. Nicolas 29, 301
- $3p^63d^n-3p^53d^{n+1}$ Spectra of Fe VI and Fe VII
B. C. Fawcett and R. D. Cowan 31, 339
- The Identification of Fe IX and Ni XI in the Solar Corona
L. Å. Svensson, J. O. Ekberg, and B. Edlén 34, 173
- Observed Heights of EUV Lines Formed in the Transition Zone and Corona. II: NRL Rocket Observations
George W. Simon, Paul H. Seagraves, R. Tousey, J. D. Purcell, and Robert W. Noyes 39, 121
- Coronal Information from EUV Disk Spectral Line Intensities
D. E. Billings and Manuel Alvarez 40, 23
- Observation of Possible Fe XVII $2p^53p(^1S_0)-2p^53s(^1P_1, ^3P_1)$ Transitions in Spectra of a Solar Active Region and Flare
S. O. Kastner, W. M. Neupert, and M. Swartz 43, 111
- OSO-7 Results on Coronal Emission near 304 Å
M. P. Nakada, R. D. Chapman, W. M. Neupert, and R. J. Thomas 43, 337
- Relation of the Observed Far Ultraviolet Solar Irradiance to the Solar Magnetic Sector Structure
Donald F. Heath, John M. Wilcox, Leif Svalgaard, and Thomas L. Duvall 45, 79
- The Analysis of XUV Emission Lines
George L. Withbroe 45, 301

- Analysis of EUV-Limb Brightening Observations from ATM. II: Influence of Spicules
George L. Withbroe and John T. Mariska **48**, 21
- The Prominence-Corona Interface Compared with the Chromosphere-Corona Transition Region
Frank Q. Orrall and Edward J. Schmahl **50**, 365
- The Forbidden Transitions within $3s^23p^53d$ of Fe IX and Ni XI and $3s^23p^43d$ of Fe X and Ni XII
B. Edlén and R. Smitt **57**, 329
- Density Dependence of Solar Emission Lines of Oxygen-Like Ions
P. K. Raju and B. N. Dwivedi **60**, 269
- The Balmer 9 and Balmer 11 Lines of He II in the Sun
J. C. Raymond, R. W. Noyes, and M. P. Stopa **61**, 271
- Density Dependence of Solar Emission Lines of Boron-Like Ions
B. N. Dwivedi and P. K. Raju **68**, 111
- Solar Irradiance below 120 nm and Its Variations
Gerhard Schmidtke **74**, 251
- Extreme Ultraviolet Spectra of Solar Active Regions and Their Analysis
Kenneth P. Dere **77**, 77
- Transitions in Highly Ionized Silicon
R. Glass **80**, 321
- Proposed Mg V, Fe XIV and Forbidden Fe XVII Line Identifications in the EUV Solar Spectrum
S. O. Kastner **81**, 59
- Calculation of Coronal Line Intensities for Boron-Like Ions
H. P. Saha and E. Trefftz **87**, 233
- A Line Identification List for the Solar Flare of 7 September, 1973 in the Wavelength Range 1335 Å-380 Å
J. G. Doyle **89**, 115
- Weakening of the Solar EUV Line Emission near the Sun's Limb
Mitsuo Kanno **89**, 253
- Diagnostic Application of Highly Ionized Iron Lines in the XUV Spectrum of a Solar Flare
H. E. Mason, A. K. Bhatia, S. O. Kastner, W. M. Neupert, and M. Swartz **92**, 199
- Wavelength-Dependence of EUV Continuum Absorption
Takara Nishikawa **93**, 37
- Spectrum, Forbidden Lines**
- Forbidden Carbon I Lines in the Solar Spectrum
D. L. Lambert and J. P. Swings **2**, 34
- The Forbidden Lines of O I in the Photospheric Spectrum
E. A. Mallia **3**, 505
- Forbidden Lines of Fe II in the Photospheric Spectrum
D. Emerson and E. A. Mallia **5**, 303
- Forbidden Sulfur I Lines in the Solar Spectrum
J. P. Swings, D. L. Lambert, and N. Grevesse **6**, 3
- Calcul des probabilités de transition pour divers états excités du Fe XII
J.-P. Rozelot **6**, 49
- Forbidden Lines of Ca II in the Photospheric Spectrum
D. L. Lambert, E. A. Mallia, and B. Warner **7**, 11
- Comments on Forbidden Sulphur I Lines in the Solar Spectrum
J. W. Swenson **9**, 31
- Spin-Forbidden Resonance Multiplets in Light Elements
B. Edlén, H. P. Palenius, K. Bockasten, R. Hallin, and J. Bromander **9**, 432
- The Excitation of the Forbidden Coronal Lines. I: Fe XIII $\lambda\lambda 10747$, 10798 and 3388
R. A. Chevalier and D. L. Lambert **10**, 115
- The Forbidden Line [Ca II] $\lambda 7323$ in the Fraunhofer Spectrum
D. L. Lambert and E. A. Mallia **10**, 311
- The Excitation of the Forbidden Coronal Lines. II: [Ca XV] $\lambda\lambda 5694$ and 5446
R. A. Chevalier and D. L. Lambert **11**, 243
- The Solar Abundance of Nickel from Photospheric [Ni II] Lines
N. Grevesse and J. P. Swings **13**, 19

- The Helium-Like Calcium, Silicon, and Sulfur Lines during the Decay of a Large Flare
G. A. Doschek and J. F. Meekins 13, 220 *Erratum* 28, 517
- The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965
John T. Jefferies, Frank Q. Orrall, and J. B. Zirker 16, 103
- Some Newly Discovered Coronal Emission Lines from High Altitude Infrared Observations of the 7 March, 1970, Solar Eclipse
Kenneth H. Olsen, Charles R. Anderson, and John N. Stewart 21, 360
- The Identification of New Forbidden Coronal Lines in the Solar EUV Spectrum
Carole Jordan 21, 381
- Note on the Helium-Like Ion Line Emission in Solar Plasmas
R. Mewe 22, 114
- The Interpretation of Total Line Intensities from Optically Thin Gases. II: The Coronal Forbidden Lines
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker 22, 317
- The Interpretation of Total Line Intensities from Optically Thin Gases. III: Application to Coronal Forbidden Line Spectra
J. T. Jefferies, F. Q. Orrall, and J. B. Zirker 22, 327
- Z-Dependence of the Level Intervals in $2s^22p^2$, $2s^22p^3$ and $2s^22p^4$
Bengt Edlén 24, 356
- Coronal Survey in X-Rays of O VII and Ne IX
L. W. Acton, R. C. Catura, A. J. Meyerott, C. J. Wolfson, and J. L. Culhane 26, 183
- A Proposed Correction to the Solar Abundances of Carbon and Oxygen Utilizing New and Accurate Theoretical Forbidden Transition Probabilities
Cleanthis A. Nicolaides and Oktay Sinanoğlu 29, 17
- Proton Collisional Excitation in the Ground Configuration of Fe^{+12}
Donald A. Landman 30, 371 *Errata* 47, 636
- The [Ca II] $\lambda 7323.90$ Line in the Solar Spectrum
Roger W. Day 36, 25
- Prediction and Identification of Some Forbidden Lines in the Ne I Sequence
S. O. Kastner 37, 179
- Forbidden Ca II in the Sun Unmasked by Way of Venus
Ronald A. Schorn, Andrew T. Young, and Edwin S. Barker 43, 9
- Forbidden Transition Probabilities for Ground Terms of Ions with p or p^5 Configurations
S. O. Kastner 46, 179
- Identification of Forbidden Coronal Lines of Fe X and Ni XII
Rikard Smitt 51, 113
- The Forbidden Transitions within $3s^23p^53d$ of Fe IX and Ni XI and $3s^23p^43d$ of Fe X and Ni XII
B. Edlén and R. Smitt 57, 329
- Density Dependence of Forbidden Transitions within $3s^23p^53d$ of the Coronal Ion Fe IX
Eberhard Haug 61, 311
- The Coronal Spectra of Fe XV and Ni XVII
A. K. Bhatia and S. O. Kastner 65, 181
- Proposed Mg V, Fe XIV and Forbidden Fe XVII Line Identifications in the EUV Solar Spectrum
S. O. Kastner 81, 59
- Expected Intensities of Solar Forbidden Lines Emitted from $2p^k$ ($k = 2, 3, 4$) Configurations
S. O. Kastner 85, 41
- Are Plasma Satellites Present among Chromospheric Lines?
Yngve Öhman 85, 53
- An Evaluation of the Possibility of Studying Flare Plasma Turbulence Using the Satellites of He I Line Forbidden Components
N. M. Firstova 90, 269
- Expected Intensities of Solar Neon-Like Ions
A. K. Bhatia and S. O. Kastner 96, 11
- Spectrum, Gamma Ray** (*see Spectrum; Gamma Rays*)

Spectrum, Infrared

Observations of the Center-to-Limb Variation of the Solar Brightness in the Far Infrared (10 to 25 Microns)

Pierre J. Léna **3**, 28

Source Functions in the Cores of Infrared Fraunhofer Lines

C. de Jager and L. Neven **3**, 159

Interpretation of Infrared Oxygen Spectroheliograms

Richard C. Altrock **7**, 343

Clarification in the Identification of Certain Lines in the Infrared Solar Spectrum

Earl F. Montgomery **10**, 60

Far Infrared Measurement of the Solar Minimum Temperature

John A. Eddy, Pierre J. Léna, and Robert M. MacQueen **10**, 330

Damping Constants for Infrared Fraunhofer Lines

C. de Jager and L. Neven **11**, 3

Observations of the Infrared Triplet of Singly Ionized Calcium

Jeffrey L. Linsky, Richard G. Teske, and Carol W. Wilkinson **11**, 374

New $C^{13}N^{14}$ Search Regions in the Solar Spectrum

Theodore D. Fay and Arne A. Wyller **11**, 384

Further Study of H_2O Lines in the Umbral Spectrum in the Region of 0.93μ

E. A. Mallia, D. E. Blackwell, and A. D. Petford **20**, 369

Some Newly Discovered Coronal Emission Lines from High Altitude Infrared Observations of the 7 March, 1970, Solar Eclipse

Kenneth H. Olsen, Charles R. Anderson, and John N. Stewart **21**, 360

Sur la détermination du rapport d'intensité des raies infrarouges de l'ion Fe XIII

G. Ratier et J.-P. Rozelot **23**, 394

Fraunhofer Lines with Large Zeeman Splitting

J. W. Harvey **28**, 9

The Absorption Spectrum of Atmospheric Water Vapor in the Vicinity of the He 10830 Å Triplet

James B. Breckinridge and Donald N. B. Hall **28**, 15

An Early Observation of $\lambda 8542$ of the Ca II Infrared Triplet

John A. Eddy **29**, 23

Studies of the Solar Chromosphere from Millimetre to Sub-Millimetre Observations. I: Isophotometric Mapping

J. E. Beckman and C. D. Clark **29**, 25

Oscillator Strengths for $2pnd-2pn'f$ Transitions of C I and Identifications in the Infrared Solar Photospheric Spectrum ($1 \leq \lambda \leq 3 \mu$)

E. Biémont **32**, 117

Polarisation de la lumière, au bord du disque solaire, dans le proche infra-rouge

J. L. Leroy **36**, 81

Tables pour déterminer la concentration d'atomes dans un état donné: ions coronaux intéressants

J. P. Rozelot, J. C. Noens, et B. Pech **37**, 173

Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. I: Results for Ti I

E. Biémont **38**, 15

Far-Infrared Solar Brightness Measured with a Balloon-Borne Lamellar-Grating Interferometer

P. Stettler, J. Rast, F. K. Kneubühl, and E. A. Müller **40**, 337

Forbidden Ca II in the Sun Unmasked by Way of Venus

Ronald A. Schorn, Andrew T. Young, and Edwin S. Barker **43**, 9

On the Center-to-Limb Variation of Infrared Photospheric Carbon Lines and the Infrared Continuum Intensity around $1.75 \mu m$

Hubertus Wöhl **43**, 285

The Solar-Flare Infrared Continuum

K. Ohki and H. S. Hudson **43**, 405

The Solar-Flare Infrared Continuum: Observational Techniques and Upper Limits

H. S. Hudson **45**, 69

Possibility of $^{24}MgH^+$ in the Solar Atmosphere - High Resolution Rotation-Vibration Spectra

P. D. Singh and W. J. Maciel **49**, 217

The Helium 10830 Å Line in the Undisturbed Chromosphere

R. G. Giovanelli and D. Hall **52**, 211

Vibration Rotation Bands of SiO in Sunspots

V. P. Gaur, M. C. Pande, and B. M. Tripathi 56, 67

On the Infrared Opacity of Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 64, 255

Improved Data of Solar Spectral Irradiance from 0.33 to 1.25 μ

Heinz Neckel and Dietrich Labs 74, 231

The Solar Radiation between 3300 and 12500 Å

Heinz Neckel and Dietrich Labs 90, 205 Errata 92, 391

The 3410 Å Band of the PH Molecule in the Solar Photospheric Spectrum

Elisabete M. De Gouveia and P. D. Singh 90, 259

Spectrum, Particle (see *Spectrum; Energetic Particles, Energy Spectrum*)

Spectrum, Radio

Spectrum Measurements of the Sun near 1 cm Wavelength

David H. Staelin, Norman E. Gaut, Sara E. Law, and Woodruff T. Sullivan III 3, 26

Time Variation of the Spectrum of Gyro-Synchrotron Emission from the Sun

Tatsuo Takakura, Yutaka Uchida, and Keizo Kai 4, 45 Corrigendum 6, 336

Some Characteristics of an S-Component of Solar Radiation Identified on November 1966 Eclipse at 4.28-cm Wavelength

Pierre Kaufmann 4, 58

Radio Spectrum of Two Active Regions. (Results of the Total Solar Eclipse of Nov. 12, 1966)

Franca Chiuderi Drago 13, 357

High Quantum Number Emission and Absorption Lines of Fe VIII, Fe XV, O III, O VII of the Sun

A. Greve 15, 380

Brightness Temperatures of the Quiet Sun and New Moon at the 6 mm Wavelength

E. E. Reber 16, 75

Influence of Helium and Heavy Elements on the Radio Absorption Coefficient

G. Chambe and P. Lantos 17, 97

A Statistical Research on Solar Microwave Bursts

E. Fürst 18, 84

Spectrum of Average Flux of the S-Component of Solar Radio Emission

M. K. Das Gupta and S. K. Sarkar 18, 276

Results of a New Absolute Calibration of the Solar Flux Density at 2980 MHz

G. K. Schmidt 19, 149

A Recalibration of the Quiet Sun Millimeter Spectrum Based on the Moon as an Absolute Radiometric Standard

Jeffrey L. Linsky 28, 409

Absolute Calibration of Solar Radio Flux Density in the Microwave Region

H. Tanaka, J. P. Castelli, A. E. Covington, A. Krüger, T. L. Landecker, and A. Tlamicha 29, 243

Correlation and Spectral Analysis of Daily Solar Radio Flux

Mohamed El-Raey and Phillip Scherrer 30, 149

High n Emission and Absorption Lines of the Sun

A. Greve 36, 85

High n Emission and Absorption Lines of the Sun (II)

A. Greve 40, 329

The Solar Brightness Temperature at Millimeter Wavelengths

Richard A. Kuseski and Paul N. Swanson 48, 41

High n Solar Radio Recombination Lines

A. Greve 52, 423

Determination of the Decameter Wavelength Spectrum of the Quiet Sun

W. C. Erickson, T. E. Gergely, M. R. Kundu, and M. J. Mahoney 54, 57

Thermal Cyclotron Radio Emission of Neutral Current Sheets in the Solar Corona

V. V. Zheleznyakov and E. Ya. Zlotnik 68, 317

On the Possibility of Observations of Current Sheets in Radio Band

V. D. Kuznetsov and S. I. Syrovatskii 69, 361

Possible Detection of Thermal Cyclotron Lines from Small Sources within Solar Active Regions

Robert F. Willson 89, 103

Spectrum, Stellar (*see Stellar Physics*)**Spectrum, Telluric** (*see Spectrum*)**Spectrum, Theory**

Effects of Line Blanketing on the Solar Windows

Duane Carbon, Owen Gingerich, and Robert Kurucz 3, 55

A Simplified Model Solar Atmosphere

D. L. Lambert 3, 118

Can the Ion H_3^+ Account for Missing Opacity in the Solar Ultraviolet?

Jeffrey L. Linsky 11, 198

Empirical Solar Continuum Models

J. L. Remo 16, 288

Interpretation of the Solar Continuum from 1680 to 600 Å. Model of the Transition Region Photosphere-Chromosphere and of the Chromosphere

Yvette Cuny 16, 293

Influence of Helium and Heavy Elements on the Radio Absorption Coefficient

G. Chambe and P. Lantos 17, 97

Evidence for the Photospheric Origin of the Flare Optical Continuum

Marcos E. Machado 17, 389

Remarks on the Convergency of Photospheric Model Conceptions and the Solar Quasi Continuum

Dietrich Labs and Heinz Neckel 22, 64

Semi-Empirical Solar Line Blanketing. II: The Results of Blanketing in Solar Model Atmospheres

J. P. Mutschlechner and Charles F. Keller 22, 70

A Search for Continuous Ultraviolet Opacity Sources in the Sun's Photosphere

Egidio Landi Degl'Innocenti and Giancarlo Noci 29, 287

The Near Ultra-Violet Flux of the Harvard Smithsonian Reference Atmosphere

R. A. Bell 29, 299

The Solar-Flare Infrared Continuum

K. Ohki and H. S. Hudson 43, 405

Calculated Solar X-Radiation. II: Spectrum between 61 and 220 Å

R. Mewe 44, 383

Determination of the Temperature of the Solar Corona from the Spectrum of the Electron-Scattering Continuum

L. E. Cram 48, 3

Molecular Line Haze Opacity in Sunspots

V. P. Gaur, M. C. Pande, and M. Sah 62, 83

On the Infrared Opacity of Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 64, 255

Multitemperature Analysis of Solar X-Ray Line Emission

J. Sylwester, J. Schrijver, and R. Mewe 67, 285

Thermal Cyclotron Radio Emission of Neutral Current Sheets in the Solar Corona

V. V. Zheleznyakov and E. Ya. Zlotnik 68, 317

On the Possibility of Observations of Current Sheets in Radio Band

V. D. Kuznetsov and S. I. Syrovatskii 69, 361

The Optical Continuum of Solar and Stellar Flares

M. A. Livshits, O. G. Badalyan, A. G. Kosovichev, and M. M. Katsova 73, 269

A Possible Explanation of Non-Steady-State Appearances in X-Ray Spectra of Solar Flares

K. N. Koshelev and E. Ya. Kononov 77, 177

Non-Thermal and Non-Equilibrium Effects in Soft X-Ray Flare Spectra

A. H. Gabriel, E. Antonucci, and L. Steenman-Clark 86, 59

White-Light Radiation from Semi-Empirical Flare Models

Luc Dame and Lawrence Cram 87, 329

Weakening of the Solar Extreme-Ultraviolet Line Emission by Lyman Continuum Absorption as Derived from Line Ratios

Mitsuo Kanno, Yoshinori Suematsu, and Takara Nishikawa 91, 71

Wavelength-Dependence of EUV Continuum Absorption

Takara Nishikawa 93, 37

Spectrum, Ultraviolet

The High-Dispersion Continuous Ultraviolet Solar Spectrum and the Balmer-Jump

J. Houtgast 3, 47

Effects of Line Blanketing on the Solar Windows

Duane Carbon, Owen Gingerich, and Robert Kurucz 3, 55

Limb-Darkening Observations between 1800 and 2900 Å

R. M. Bonnet and J. E. Blamont 3, 64

The Far Ultraviolet Spectrum of the Sun

Owen Gingerich and John C. Rich 3, 82

Magnetic Fields and the Temperature Structure of the Chromosphere-Corona Interface

Roger A. Kopp and Max Kuperus 4, 212

An Outstanding Lyman-Alpha Event

B. C. Monsignori Fossi, G. Poletto, and G. L. Tagliaferri 10, 196

Measurements in the Solar Spectrum between 1400 and 1875 Å with a Rocket-Borne Spectrometer

W. H. Parkinson and E. M. Reeves 10, 342

Can the Ion H_3^+ Account for Missing Opacity in the Solar Ultraviolet?

Jeffrey L. Linsky 11, 198

The UV Continuum 1450-2100 Å and the Problem of the Solar Temperature Minimum

K. G. Widing, J. D. Purcell, and G. D. Sandlin 12, 52

Solar C II Resonance Line Profiles

R. A. Berger, E. C. Bruner, Jr., and R. J. Stevens 12, 370

The Solar Limb Emission Spectrum between 300 Å and 2803 Å

W. M. Burton and A. Ridgeley 14, 3

Description of an Observational Method for Determining Absolute Intensities in the Solar Spectrum between λ 2962 Å and λ 4087 Å

J. Houtgast 15, 273

Excited Lines in the H and K Region of Ca II in the Solar Flare on March 12, 1969

H. Grossi Gallegos, H. Molnar, and J. R. Seibold 16, 120

λ 4097.3 N III Emission in the Chromospheric Spectrum?

D. L. Lambert 16, 336

An Echelle Spectrograph for High Resolution Studies of the Solar Vacuum Ultraviolet Spectrum

B. C. Boland, B. B. Jones, and S. F. T. Engstrom 17, 333

$L\alpha$ Measurements during the Solar Eclipse of 12 November 1966

L. H. Weeks and L. G. Smith 20, 59

Ultraviolet Solar Spectrum Recorded by Echelle Spectrograph (1970 to 1800 Å)

Howard C. McAllister 21, 27

Inhomogeneous Structure of the Solar Chromosphere from Lyman-Continuum Data

J. E. Vernazza and R. W. Noyes 22, 358

The Solar Abundance of Gold

John E. Ross and Lawrence H. Aller 23, 13

Further Observations of the Solar Limb Spectrum in the Region 550-2000 Å

A. Ridgeley and W. M. Burton 27, 280

Ultraviolet Ion Chamber Measurements of the Solar Minimum Brightness Temperature

J. H. Carver, B. H. Horton, G. W. A. Lockey, and Bryan Rofe 27, 347

High Resolution Ultraviolet Solar Spectra in the Region 2765-2822 Å

A. Greve, C. D. McKeith, and N. E. McKeith 28, 289

The Near Ultra-Violet Flux of the Harvard Smithsonian Reference Atmosphere

R. A. Bell 29, 299

Rocket Measurement of Solar Fluxes at 1216 Å, 1450 Å and 1710 Å

M. Ackerman and P. Simon 30, 345

Observation of the Absolute Intensity and the Centre-to-Limb Variation of the Sun in the Vacuum Ultraviolet Region

Keizo Nishi 33, 23

The Identification of Fe IX and Ni XI in the Solar Corona

L. Å. Svensson, J. O. Ekberg, and B. Edlén 34, 173

The Solar Abundance of Germanium

John E. Ross and Lawrence H. Aller 35, 281

The Ultraviolet Solar Spectrum 2756 Å-2831 Å

A. Greve and C. D. McKeith 37, 3

Determinations of Atomic Lifetimes for the Rare Earth Ions: Pr II, Tm II, Lu II, Ce III

T. Andersen and G. Sørensen 38, 343

Ultraviolet Solar Spectrum (1889-1969 Ångströms)

Howard C. McAllister and Peter H. Smith 41, 3

On the Identification of Fe IX and Ni XI from Coronal Spectrum

Fragoise Magnant-Crifo 41, 109

Observations of the Absolute Intensity of the Sun in the Vacuum Ultraviolet Region

Keizo Nishi 42, 37

Equivalent Width of Molecular Lines in Stars. II: Lines of (A-X) Band of CO and SiO in the Solar Atmosphere

K. S. Krishna Swamy 47, 469

Solar Flux Determination in the Spectral Range 150-210 nm

Denys Samain and Paul C. Simon 49, 33

Solar Limb Darkening. I: $\lambda\lambda(3033-7297)$

A. Keith Pierce and Charles D. Slaughter 51, 25

Emission Measures and Structure of the Transition Region of a Sunspot from Emission Lines in the Far Ultraviolet

Chung-Chieh Cheng and O. Kjeldseth Moe 52, 327

New Measurements of the Se I Resonance Lines

B. Lindgren and H. Palenius 53, 347

The Forbidden Transitions within $3s^23p^53d$ of Fe IX and Ni XI and $3s^23p^43d$ of Fe X and Ni XII

B. Edlén and R. Smitt 57, 329

Observations of the Mg I and II Resonance Lines in an Active Region

Marc S. Allen and Howard C. McAllister 60, 251

Density Dependence of Forbidden Transitions within $3s^23p^53d$ of the Coronal Ion Fe IX

Eberhard Haug 61, 311

(A-X) System of SiO in Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 62, 77

The Influence of Spectral Resolution on Line Blending and Wavelength Positions in the Solar UV Spectrum

A. Greve and C. D. McKeith 65, 405

Limb Darkening in the Solar Ultraviolet

Walter E. Mitchell, Jr. 69, 391

Improved Data of Solar Spectral Irradiance from 0.33 to 1.25 μ

Heinz Neckel and Dietrich Labs 74, 231

Solar Irradiance between 120 and 400 nm and Its Variations

Paul C. Simon 74, 273

Effects of Solar Variations on the Upper Atmosphere

G. Kockarts 74, 295

Quiet Sun Observations of the Al I Autoionization Lines $\lambda 1932$ and $\lambda 1936$

J. W. Cook and O. Kjeldseth Moe 76, 109

The Solar Radiation between 3300 and 12500 ÅHeinz Neckel and Dietrich Labs 90, 205 *Errata* 92, 391**The 3410 Å Band of the PH Molecule in the Solar Photospheric Spectrum**

Elisabete M. De Gouveia and P. D. Singh 90, 259

Weakening of the Solar Extreme-Ultraviolet Line Emission by Lyman Continuum Absorption as Derived from Line Ratios

Mitsuo Kanno, Yoshinori Suematsu, and Takara Nishikawa 91, 71

Comparison of UV Spectra from Solar-Type Stars

A. Greve and W. Wamsteker 94, 3

Spectrum, Visible**The Forbidden Lines of O I in the Photospheric Spectrum**

E. A. Mallia 3, 505

- A Survey of Current Coronal Visible Line Identifications
William J. Wagner and Lewis L. House 5, 55
- A Study of Weak Molecular and Atomic Lines in the Photospheric Spectrum
E. A. Mallia 5, 281
- Equator-Pole Effect in the Central Intensities of Some Strong Solar Fraunhofer Lines
Marijke Burger and J. Houtgast 9, 296
- The Excitation Equilibrium of Coronal Ions
J. B. Zirker 11, 68
- Fraunhofer Lines without Zeeman Splitting
Gopal Sistla and J. W. Harvey 12, 66
- The Search for Rhenium Lines in the Fraunhofer Spectrum
J. W. Swensson 13, 25
- Improved Solar Wavelengths between 7780 and 7925 Å
A. T. Young and R. A. Schorn 15, 97
- Europium and Lanthanum in Sunspot and in the Undisturbed Photosphere
G. Bachmann, K. Pflug, and J. Staude 15, 113
- The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965
John T. Jefferies, Frank Q. Orrall, and J. B. Zirker 16, 103
- Predicted Wavelengths of Coronal Transitions in the Configurations $3s^23p^2$, $3s^23p^3$ and $3s^23p^4$
Lars Åke Svensson 18, 232
- True Central Intensities of Fraunhofer Lines
J. W. Brault, C. D. Slaughter, A. K. Pierce, and R. S. Aikens 18, 366
- The Intensity Distribution of the D₃ Helium Line near the Solar Limb
R. A. Gulyaev 18, 410
- Interferometric Measurements of 142 Solar Wavelengths
James E. O'Brien, S.J. 19, 314
- Spectral Lines from Photosphere to Chromosphere, Observed during the March 1970 Eclipse: A First Comparison with Theory
J. Houtgast, O. Namba, R. J. Rutten, and J. W. Wijnenga 21, 281
- Some New Dy II Identifications in the Solar Spectrum
J. C. Howard 24, 32
- Fraunhofer Lines with Large Zeeman Splitting
J. W. Harvey 28, 9
- The Solar Neutral Iron Spectrum. I: Measurement of Solar Fe I Line Profiles from Center to Limb
Bruce W. Lites and J. W. Brault 30, 283
- The Solar Abundance of Thorium and Lead
Ø. Hauge and H. Sørli 30, 301
- Limb Emission Lines near Solar H and K: $\lambda\lambda 3900$ to 4000 Å
Robert E. Stencel 33, 59
- Line-Intensities in the Photosphere-Chromosphere Transition Region. II: Observational Material from the 1961 Eclipse at Brač
E. L. van Dessel, J. Houtgast, and D. Koelbloed 33, 375
- Center-to-Limb Profiles of the Aluminum Autoionization Lines in the Solar Spectrum
Howard C. McAllister 35, 3
- Some Remarks on Line Weakenings in Photospheric Faculae
B. Caccin, R. Falciani, and A. Donati-Falchi 35, 41
- A Correction to McAllister's 1960 Atlas of the Solar Spectrum
Eric G. Chipman 36, 45
- Tables pour déterminer la concentration d'atomes dans un état donné: ions coronaux intéressants
J. P. Rozelot, J. C. Noens, et B. Pech 37, 173
- Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. I: Results for Ti I
E. Biéumont 38, 15
- Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. III: Results for Mn I
Emile Biéumont 44, 269

Solar Limb Darkening. I: $\lambda\lambda(3033-7297)$

A. Keith Pierce and Charles D. Slaughter **51**, 25

Limb Darkening in the Solar Ultraviolet

Walter E. Mitchell, Jr. **69**, 391

Improved Data of Solar Spectral Irradiance from 0.33 to 1.25 μ

Heinz Neckel and Dietrich Labs **74**, 231

Transitions in Highly Ionized Silicon

R. Glass **80**, 321

The Solar Radiation between 3300 and 12500 \AA

Heinz Neckel and Dietrich Labs **90**, 205 *Errata* 92, 391

Solar Line Blocking for Disk-Center and Disk-Average Radiation from 3300 to 6860 \AA

Heinz Neckel and Dietrich Labs **95**, 229

Spectrum, X-Ray

Determination of the Solar X-Ray Spectrum by Using the Atmospheric Extinction

M. Landini **2**, 106

Absolute Intensities in the Solar X-Ray Spectrum near Minimum Activity

J. N. van Gils and W. de Graaff **2**, 290

16-40 \AA Coronal X-Ray Emission during the 12 November 1966 Eclipse

H. V. Argo, J. A. Bergey, W. D. Evans, and S. Singer **5**, 551

OSO-III: Preliminary Scientific Results

John C. Brandt **6**, 171

X-Ray and Extreme Ultraviolet (1-400 \AA) Spectroscopy of the Sun, from OSO-III

W. M. Neupert, W. A. White, W. J. Gates, M. Swartz, and R. M. Young **6**, 183

Le Rayonnement X du soleil lors de l'éclipse du 20 Mai 1966

G. Simon **7**, 295

Solar XUV Limb Brightening Observations. II: Lines Formed in the Chromospheric-Coronal Transition Region

George L. Withbroe **11**, 208

The Helium-Like Calcium, Silicon, and Sulfur Lines during the Decay of a Large Flare

G. A. Doschek and J. F. Meekins **13**, 220 *Erratum* 28, 517

Further X-Ray Spectra of Solar Active Regions

R. M. Batstone, K. Evans, J. H. Parkinson, and K. A. Pounds **13**, 389

The Spectrum of Multiply Ionized Iron between 10 and 17 \AA

J. P. Connerade, N. J. Peacock, and R. J. Speer **14**, 159 *Erratum* 17, 269

Grazing Incidence Spectra of the Sun

F. F. Freeman and B. B. Jones **15**, 288

Variation on O VII X-Ray Line-Emission from the Solar Corona

H. R. Rugge and A. B. C. Walker, Jr. **15**, 372

A Comment on Solar Flare Iron Line Emission at 1.9 \AA

K. J. H. Phillips and J. L. Culhane **16**, 469

The Spectrum of Multiply Ionized Argon between 20 and 40 Angstroms

J. P. Connerade, N. J. Peacock, and R. J. Speer **18**, 63

Satellite Lines in the Solar X-Ray Spectrum

Werner M. Neupert **18**, 474

Isoelectronic Wavelength Calculations for Argon Spectra

M. D. Williams **21**, 38

On the Accuracy of Hartree-Fock Theoretical Wavelengths in the XUV

J. P. Connerade **21**, 40

Calculated Solar X-Radiation from 1 to 60 \AA

R. Mewe **22**, 459 *Errata* 23, 508 and 44, 389

Coronal Survey in X-Rays of O VII and Ne IX

L. W. Acton, R. C. Catura, A. J. Meyerott, C. J. Wolfson, and J. L. Culhane **26**, 183

Measurements of the Solar Spectrum between 30 and 128 \AA

James E. Manson **27**, 107

Further Identifications in the Ar IX Spectrum

J. P. Connerade **27**, 130

- Solar X-Ray Spectra Observed from the 'Intercosmos-4' Satellite and the 'Vertical-2' Rocket
Yu. I. Grineva, V. I. Karev, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, L. A. Vainstein, B. N. Vasilyev, and I. A. Zhitnik **29**, 441
- Solar Flare Line Emission between 6 Å and 25 Å
W. M. Neupert, M. Swartz, and S. O. Kastner **31**, 171
- Measurement of the X-Ray Emission of the Solar Atmosphere during a Period of Low Activity
Richard S. Wolff **34**, 163
- Ionization Equilibrium in Soft X-Ray-Emitting Solar Flares
K. J. H. Phillips, W. M. Neupert, and R. J. Thomas **36**, 383
- A Multithermal Analysis of Solar X-Ray Emission
Kenneth P. Dere, Donald M. Horan, and Robert W. Kreplin **36**, 459
- A Comparison of Three Solar Active Regions Based on Their Soft X-Ray Line Spectra
D. H. Brabban **38**, 449
- Enhancement of the Solar X-Ray Line Intensities Due to Dielectronic Recombination as an Excitation Process
S. M. Razaullah Ansari and Badré Alam **41**, 97
- The Analysis of a High Resolution X-Ray Spectrum of a Solar Active Region
John H. Parkinson **42**, 183
- Crystal Spectrometer Studies of the Sun Employing a Rotation Modulation Collimator
D. H. Brabban, W. M. Glencross, and F. D. Rosenberg **42**, 355
- Calculated Solar X-Radiation. II: Spectrum between 61 and 220 Å
R. Mewe **44**, 383
- The Interpretation of Simultaneous Soft X-Ray Spectroscopic and Imaging Observations of an Active Region
J. M. Davis, M. Gerassimenko, A. S. Krieger, and G. S. Vaiana **45**, 393
- The Spectrum of Ni XIX in the Solar Corona
R. J. Hutcheon, J. P. Pye, and K. D. Evans **46**, 171
- New Satellite Structure of the Solar and Laser Plasma Spectra in Vicinity of the $L\alpha$ (Mg XII) Line
E. V. Aglizki, V. A. Boiko, A. Ya. Faenov, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, S. A. Pikuz, U. I. Safronova, J. A. Sylwester, A. M. Urvov, L. A. Vainshtein, and I. A. Zhitnik **56**, 375
- Silicon X-Ray Line Emission from Solar Flares and Active Regions
John H. Parkinson, R. S. Wolff, H. L. Kestenbaum, W. H.-M. Ku, J. R. Lemen, K. S. Long, R. Novick, R. J. Suozzo, and M. C. Weisskopf **60**, 123
- Iron $K\alpha$ -Fluorescence in Solar Flares: A Probe of the Photosphere Iron Abundance
Taeil Bai **62**, 113 *Erratum 64*, 417
- X-Ray Temperature-Emission Measure Modeling of the Solar Corona
G. G. Cohen and D. W. Keith **63**, 165
- Solar Flare X-Ray Spectra. I: Wavelengths of Fe XXIV-XXV Lines in the Regions $\lambda = 1.85$ -1.87 Å
V. V. Korneev, V. V. Krutov, S. L. Mandelstam, A. M. Urvov, I. A. Zhitnik, E. Ya. Kononov, B. Sylwester, and J. Sylwester **63**, 319
- Solar Flare X-Ray Spectra. II: Laboratory Reproduction in the Region of Fe XXV-XXVI Resonance Lines
V. V. Korneev, V. V. Krutov, S. L. Mandelstam, A. M. Urvov, I. A. Zhitnik, E. Ya. Golts, E. Ya. Kononov, and Y. V. Sidelnikov **63**, 329
- Multitemperature Analysis of Solar X-Ray Line Emission
J. Sylwester, J. Schrijver, and R. Mewe **67**, 285
- Analysis of the High-Resolution X-Ray Spectra Obtained aboard the Intercosmos 16 Satellite. I: Identification of the Lines in the 9.14-9.33 Å Spectral Region
V. V. Krutov, V. V. Korneev, U. I. Karev, V. M. Lomkova, S. N. Oparin, A. M. Urvov, I. A. Zhitnik, G. Bromboszcz, M. Siarkowski, J. Sylwester, and S. Vasha **73**, 105
- A Possible Explanation of Non-Steady-State Appearances in X-Ray Spectra of Solar Flares
K. N. Koshelev and E. Ya. Kononov **77**, 177
- Analysis of the High Resolution Mg XI X-Ray Spectra. III: Non-Thermal Interpretation of Some Spectra
M. Siarkowski, J. Sylwester, G. Bromboszcz, V. V. Korneev, S. L. Mandelstam, S. N. Oparin, A. M. Urvov, and I. A. Zhitnik **81**, 63
- A New Method for the Multitemperature Analysis of Solar X-Ray Line Emission
M. Siarkowski **84**, 131
- Interpretation of the Soft X-Ray Spectra from HINOTORI
K. Tanaka, N. Nitta, K. Akita, and T. Watanabe **86**, 91

Diagnostic Application of Highly Ionized Iron Lines in the XUV Spectrum of a Solar Flare

H. E. Mason, A. K. Bhatia, S. O. Kastner, W. M. Neupert, and M. Swartz 92, 199

Expected Intensities of Solar Neon-Like Ions

A. K. Bhatia and S. O. Kastner 96, 11

X-Ray Resonance Scattering in a Spherically Symmetric Coronal Model

Bernhard M. Haisch and E. Scott Claflin 99, 101

Spicules

On the Motions of Chromospheric Fine-Structure in a Weak Plage

J. B. Zirker 1, 204

On the Origin of Spicules in the Chromosphere-Corona Transition Region

Max Kuperus and R. Grant Athay 1, 361

La diffusion des spicules dans la couronne solaire

Z. Mouradian 2, 258

Solar Spicules (*Invited Review Paper*)

J. M. Beckers 3, 367

Spectral Observations of Spicules at Two Heights in the Solar Chromosphere

Jay M. Pasachoff, Robert W. Noyes, and Jacques M. Beckers 5, 131

On Three-Dimensional Information Pictures of Chromospheric Spicules

S. G. Mamedov and E. Sh. Orudzhev 6, 41

High-Resolution Photography of the Solar Chromosphere. VII: Structure of the Low Chromosphere

R. E. Loughhead 10, 71

A Solar Spicule Model Based upon Calcium II K Line Radiative Transfer Studies

Lorne W. Avery and Lewis L. House 10, 88

Solar XUV Limb Brightening Observations. II: Lines Formed in the Chromospheric-Coronal Transition Region

George L. Withbroe 11, 208

New Observational Results for the Solar Chromosphere

G. J. Banos and C. J. Macris 12, 106

The Observation of the Chromospheric Fine Structure by the 53-cm Lyot Coronagraph

G. M. Nikolsky 12, 379

The Formation of the Ca II Line in a Spinning Spicule

Lorne W. Avery 13, 301

Convective Instability of a Model Chromosphere

Richard J. Defouw 14, 42

The Horizontal Component of Spicule Motion

Spencer R. Weart 14, 310

On Physical Properties of Solar Spicules

V. A. Krat and T. V. Krat 17, 355

Hydrogen Ionization and $n = 2$ Population for Model Spicules and Prominences

A. Poland, A. Skumanich, R. G. Athay, and E. Tandberg-Hanssen 18, 391

Motions of H α -Spicules along the Solar Limb

G. M. Nikolsky and A. G. Platova 18, 403

High-Resolution Photography of the Solar Chromosphere. IX: Limb Observations of High Spectral Purity

R. E. Loughhead and E. J. Tappere 19, 44

Oscillations of Visible Chromosphere Boundary and Regularity in Position of Spicule Groups along the Limb

July V. Platov and Nataly S. Shilova 19, 52

The Abundance of Helium in Prominences and in the Chromosphere

Tadashi Hirayama 19, 384

A Study of the Fine Structure of the Solar Chromosphere at the Limb

C. E. Alissandrakis and C. J. Macris 20, 47

Observation in the Wing of the H α Line and Identification of the Spicular Structure near the Solar Limb

S. Koutchmy and C. Macris 20, 295

The Chromosphere in Continuum Emission Observed at the Total Solar Eclipse on 7 March 1970

Mitsugu Makita 24, 59

A Model of the Quiet Solar Atmosphere

J. H. Piddington 27, 402

- Spectral Investigation of the Chromosphere. II: The Nature of the Mottles and a Model of the Overall Structure
Ulrich Grossmann-Doerth and Marina von Uexküll 28, 319
- A Morphological Study of Solar Spicules
D. K. Lynch, J. M. Beckers, and R. B. Dunn 30, 63
- Solar Spicules Observed through a K-Filter
G. Banos 32, 337
- A Spectroscopic Study of Solar Spicules in $H\alpha$, $H\beta$ and K
Constantine E. Alissandrakis 32, 345
- The Solar Filigree
Richard B. Dunn and Jack B. Zirker 33, 281
- On the Structure and the Motion of a Spicule
W. Unno, E. Ribes, and I. Appenzeller 35, 287
- Studies of K Line Filtergrams
H. Zirin 38, 91
- A Diffuse Component in the $H\alpha$ Chromospheric Network
R. G. Giovanelli 38, 117
- The Fine-Structure of the Solar Atmosphere in the Far Ultraviolet
Gunter E. Brueckner and John-David F. Bartoe 38, 133
- A Comparison of Spicules in the $H\alpha$ and He II (304 Å) Lines
Olav Kjeldseth Moe, Oddbjørn Engvold, and Jacques Maurice Beckers 40, 65
- Spectral Features to be Expected from Rotational and Expansional Motions in Fine Solar Structures
B. Rompolt 41, 329
- On the Spicular Density Enhancement in the Region of Formation
S. K. Sahai and R. J. Bessey 42, 67
- Les bulles chromosphériques
Zadig Mouradian et Guy Simon 42, 311
- The Work of the Diode Array: He 10830 Observations of Spicules and Subflares
David M. Rust and Charles A. Bridges III 43, 129
- A Time Evolution Study of Limb Spicule Spectra
Kenneth R. Krall, R. J. Bessey, and Jacques M. Beckers 46, 93
- Analysis of EUV-Limb Brightening Observations from ATM. II: Influence of Spicules
George L. Withbroe and John T. Mariska 48, 21
- Photometric Study of Chromospheric and Coronal Spikes Observed during the Total Solar Eclipse of 30 June, 1973
S. Koutchmy and G. Stellmacher 49, 253
- Quelques résultats d'observation des spicules chromosphériques en K et D3
Z. Mouradian et I. Soru-Escaut 50, 69
- A Statistical Study of Spicule Inclinations
James M. Mosher and Thomas P. Pope 53, 375
- Measurement of the Relative Intensities of He I-H8 Lines $\lambda 3889\text{Å}$ in the Spectrum of the Chromospheric Spicules at Various Heights above the Limb
K. Nikolskaya 56, 71
- D₃ Spicules and the Lower Chromosphere
K. A. Marsh 57, 37
- Downflow in the Supergranulation Network and Its Implication for Transition Region Models
G. W. Pneuman and R. A. Kopp 57, 49
- Properties of the Solar Chromosphere $H\alpha$ Spicules as Observed Spectrally
V. I. Kulidzaniashvili and G. M. Nikolsky 59, 21
- Spicules: The Resonant Response to Granular Buffeting?
B. Roberts 61, 23
- Activity in the Quiet Sun. I: Observations of Macrospicules in $H\alpha$ and D₃
Barry J. LaBonte 61, 283
- A New Resonance in the Solar Atmosphere. I: Theory
Joseph V. Hollweg 62, 227
- The Radius of the Sun at Centimeter Waves and the Brightness Distribution across the Disk
E. Fürst, W. Hirth, and P. Lantos 63, 257

- The Variation of Solar Brightness at the Extreme Solar Limb at Centimetre Radio Waves
P. Lantos, E. Fürst, and W. Hirth **63**, 271
- On Spicules and the Stability Analysis of the Minimum Flux Corona Theory
W. van Tend **64**, 229
- Dynamics of H α Spicules According to Spectral Observations at Various Heights of the Solar Chromosphere
V. I. Kulidzanishvili **66**, 251
- Comments on the Mechanism for the Spicule Support
P. G. Papushev **68**, 275
- A Mechanism for Solar Ultraviolet Flux Variability
Kenneth H. Schatten and Donald F. Heath **73**, 13
- A Time Dependent Model for Spicule Flow
S. S. Hasan and P. Venkatakrishnan **73**, 45
- Mass Motions in the Transition Region
Giannina Poletto **73**, 233
- Alfvén Waves in the Solar Atmosphere. III: Nonlinear Waves on Open Flux Tubes
Joseph V. Hollweg, Stephen Jackson, and David Galloway **75**, 35
- Comment on the Paper 'A New Resonance in the Solar Atmosphere' by Joseph V. Hollweg
P. Venkatakrishnan and S. S. Hasan **75**, 79
- Numerical Hydrodynamics of the Jet Phenomena in the Solar Atmosphere. I: Spicules
Yoshinori Suematsu, Kazunari Shibata, Takara Nishikawa, and Reizaburo Kitai **75**, 99
- Why Are Spicules Absent over Plages and Long under Coronal Holes?
Kazunari Shibata and Yoshinori Suematsu **78**, 333
- Study of the Brightness Distribution across Spicules from Observations of the Spicule Occultation by the Moon at the Partial Solar Eclipse
G. K. Ajmanova, A. K. Ajmanov, and R. A. Gulyaev **79**, 323
- Influence of the Acoustic Radiation Pressure on the Atmosphere of the Sun
O. Bschorr **79**, 327
- Two Types of Jets and Origin of Macrospicules
Kazunari Shibata **81**, 9
- Origin of the Weakening of EUV Emission Lines Formed in the Chromosphere-Corona Transition Zone
Takara Nishikawa **85**, 65
- On the Problem of Spicular Oscillations
V. I. Kulidzanishvili and Yu. D. Zhugzhda **88**, 35
- Weakening of the Solar EUV Line Emission near the Sun's Limb
Mitsuo Kanno **89**, 253
- Suspended Spicules Associated with the Enhanced Bright Network in an Active Region
V. Gaizauskas **93**, 257
- The Chromosphere and Transition Region - Current Status and Future Directions of Models
(*Invited Review Paper*)
R. Grant Athay **100**, 257

Stark Effect

- Determination of Electron Density in Plasma by the Number of the Extreme Resolved Line
L. N. Kurochka and L. B. Maslennikova **11**, 33
- Spectral Analysis of Sunspot Flares
Marcos E. Machado and Jorge R. Seibold **29**, 75
- The Stark Broadening Mechanism in an Unstable Plasma
D. S. Spicer and J. Davis **43**, 107
- Possible Spectral Diagnostics for Turbulent Electric Fields in Solar Flares
P. Bakshi and G. Kalman **47**, 307
- Measurement of Plasma Wave Electric Fields in Solar Flares
W. D. Davis **54**, 139
- Some Comments on the Limb Shift of Solar Lines. I: The Effect of Pressure Shifts on Iron Lines in the Solar Atmosphere
Jacques M. Beckers and Paul de Vegvar **58**, 7
- Electric Fields in Coronal Magnetic Loops
P. Foukal, P. Miller, and L. Gilliam **83**, 83

Stars (see *Stellar Physics*)**Stellar Activity Cycles (see *Stellar Physics*)****Stellar Physics**

On the Relative Residual Intensities of the Calcium H and K Lines

Jeffrey L. Linsky 11, 355

Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind

S. Grzędzielski 21, 225

The Relevance of Solar Flares to Astrophysics (*Invited Paper*)

P. A. Sturrock and J. W. Knight 47, 401

Theory of the Solar Cycle

Michael Stix 74, 79

An Essay on Stellar Oscillations and Evolution

Icko Iben, Jr. 82, 457

Stellar 5 min Oscillations

Jørgen Christensen-Dalsgaard and Søren Frandsen 82, 469

Comparison of UV Spectra from Solar-Type Stars

A. Greve and W. Wamsteker 94, 3

A Self-Consistent Linear-Mode Model of Stellar Convection

Joel MacAuslan 99, 55

Nonradiative Activity Across the H-R Diagram. Which Types of Stars are Solar-Like? (*Invited Review Paper*)

Jeffrey L. Linsky 100, 333

Solar and Stellar Activity: The Theoretical Approach (*Invited Review Paper*)

Gaetano Belvedere 100, 363

Stellar Analogs of Solar Magnetic Activity (*Invited Review Paper*)

Robert W. Noyes 100, 385

Mass Loss from Solar-Type Stars (*Invited Review Paper*)

L. Hartmann 100, 587

The Future of Solar Physics (*Invited Review Paper*)

E. N. Parker 100, 599

Stellar Winds and Mass Loss (see *Stellar Physics*)**Subgranular Structures (see *Intergranular Region and Subgranular Structures*)****Sunspots**

Magnetic Fields in Small and Young Spots

V. Bumba 1, 371

The Velocity Field Surrounding Sunspots, as Derived from Observations of H α

E. Haugen 2, 227

The Structure of a Sunspot. I: The Birth and Development of a Sunspot

P. R. Wilson 3, 243

The Structure of a Sunspot. III: Observations of the Wilson Effect

P. R. Wilson and C. J. Cannon 4, 3

The Intensity, Velocity and Magnetic Structure of a Sunspot Region. II: Some Properties of Umbral Dots

J. M. Beckers and E. H. Schröter 4, 303

On the Development of Magnetic Fields in Active Regions

M. K. V. Bappu, V. M. Grigorjev, and V. E. Stepanov 4, 409

The Structure of a Sunspot. IV: A Two-Dimensional Radiative Transfer Analysis of Center-Limb Intensity Profiles

P. R. Wilson 5, 338

On the Energy Release by Magnetic Field Dissipation in the Solar Atmosphere

M. Kopecký and V. Obridko 5, 354

High-Resolution Photography of the Solar Chromosphere. V: The Fibrils around Isolated Sunspots

R. E. Loughhead 5, 489

Chromospheric Inhomogeneities in Sunspot Umbrae

Jacques M. Beckers and Paul E. Tallent 7, 351

Some Properties of Umbral Flashes

A. Wittmann 7, 366

On the Position of Sunspots in the Core of $H\alpha$ Relative to the Continuum

Oddbjörn Engvold 8, 284

The Wilson Effect and the Transparency of Sunspot Models

E. Jensen, R. Brahde, and P. Ofstad 9, 397

Magnetic 'Knots' in the Solar Photosphere

H. I. Abdussamatov and V. A. Krat 9, 420

The Intensity, Velocity and Magnetic Structure of a Sunspot Region. V: On the Gradients of Temperature and Pressure in Sunspots

A. Wittman and E. H. Schröter 10, 357

Structure of a Sunspot. V: What is the Wilson Effect?

P. R. Wilson and P. S. McIntosh 10, 370

The Intensity, Velocity and Magnetic Structure of a Sunspot Region. IV: Properties of a Unipolar Sunspot

J. M. Beckers and E. H. Schröter 10, 384

Quelques effets de l'interaction des centres actifs solaires

M.-J. Martres 11, 258

On the Dependence of Sunspot Minimum Intensity on Area

M. Rossbach and E. H. Schröter 12, 95

New Observational Results for the Solar Chromosphere

G. J. Banos and C. J. Macris 12, 106

On the Magnetic Field in Pores

G. W. Simon and N. O. Weiss 13, 85

Intensity Profiles of a Sunspot near the Solar Limb

E. A. Mallia 13, 319

Active Regions. II: Mount Wilson 16997. A Small Spot with Big Flares

H. Zirin 14, 342

Unusual Rotation of a Sunspot 30 September to 8 October 1969

Richard A. Miller 16, 373

On the Magnetic Fields and Motions in Sunspots at Different Atmospheric Levels

H. I. Abdussamatov 16, 384

The Effect of Scattered Light on Solar Intensity Observations as Derived from 9 May, 1970 Mercury Transit

P. Maltby 18, 3

Observations of Stray-Light and Sunspot Intensities during the Mercury Transit of 1970 May 9

W. Mattig 18, 434

Sunspot Intensity Observations during the 9 May 1970 Mercury Transit

P. Maltby and L. Staveland 18, 443

Facular Models and the Sunspot Energy Deficit

P. R. Wilson 21, 101

Observation of Filamentary Structure in Sunspot Umbrae

D. Papathanasoglou 21, 113

Faculae and East-West Asymmetry of Sunspot Area

C. Sawyer and M. W. Haurwitz 23, 429

Observations of the Horizontal Velocity Field Surrounding Sunspots

N. R. Sheeley, Jr. 25, 98

Solar Bright Points in 3840 Å and $H\alpha$

Joan Vorpahl and Thomas Pope 25, 347

The Structure of Sunspots. I: Observational Constraints, Current Sheet Models

M. H. Gokhale and C. Zwaan 26, 52

Calculation of 5250.216 Å Line Profiles in Sunspots

A. R. Dunn 26, 83

Time-Average Spectroheliograms

G. A. Chapman 26, 299

On the Sunspot Structure

V. A. Krat, V. N. Karpinsky, and L. M. Pravdjuk 26, 305

Correction of Solar Observations for Stray Light by Numerical Integration, with Application to Mercury's Drop

Rolf Brahde 26, 318

Oscillations and Waves in a Sunspot

R. G. Giovanelli 27, 71

Observations of Moving Magnetic Features near Sunspots

K. Harvey and J. Harvey 28, 61

Flares Associated with EFR's (Emerging Flux Regions)

Joan A. Vorpahl 28, 115

Sunspot Observations by Means of a Vidicon Camera (I)

K. Matsumaru 28, 351

On Some Characteristics of Umbral Fine Structure

F. Kneer 28, 361

Étude morphologique et cinématique des structures fines d'une tache solaire

R. Muller 29, 55

Spectral Analysis of Sunspot Flares

Marcos E. Machado and Jorge R. Seibold 29, 75

On the Possibility of Constructing a Radiative Sunspot Model in Magnetohydrostatic Equilibrium

D. J. Mullan 30, 75

Can Oscillations Grow in a Sunspot Umbra?

D. J. Mullan and H. S. Yun 30, 83

On the Generation of Umbral Flashes and Running Penumbral Waves

R. L. Moore 30, 403

Outflow of Chromospheric Emission Features from the Rim of a Sunspot

Sou-Yang Liu 31, 127

A Morphological Study of the Light-Bridges in Sunspots

M. Vazquez 31, 377

Gradient de densité et température dans la basse couronne

J. L. Leroy, P. Poulain, et B. Fort 32, 131

Étude photométrique des structures fines de la pénombre d'une tache solaire

R. Muller 32, 409

The Cooling of a Sunspot. III: Recent Observations

P. R. Wilson 32, 435

A Simple Magnetostatic Model of Sunspots

F. H. Busse 33, 413

The Depth of Sunspots

Th. Prokakis 35, 105

Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. III: Magnetic Field Structure of Spot Mt. Wilson 18488

A. Wittmann 36, 29

The Nature of the Sunspot Phenomenon. I: Solutions of the Heat Transport Equation

E. N. Parker 36, 249

High-Resolution Photography of the Solar Chromosphere. XIV: Morphology of Sunspots at the Chromospheric Level

R. E. Loughhead 38, 77

First Phase of Active Regions and Their Relation to the Chromospheric Network

R. Born 38, 127

The Fine-Structure of the Solar Atmosphere in the Far Ultraviolet

Guenther E. Brueckner and John-David F. Bartoe 38, 133

High-Resolution Photography of the Solar Chromosphere. XIII: $H\alpha$ Contrast Profiles of Sunspot Fibrils

R. J. Bray 38, 377

 $H\alpha$ Oscillations in Sunspot Umbrae

Gary L. Phillis 41, 71

Umbral Oscillations and Penumbral Waves in $H\alpha$

R. L. Moore and Frances Tang 41, 81

Sunspot and Stray Light Observations during the 1971, February 25 Partial Solar Eclipse

J. Köppen 42, 325

The Chromospheric Evershed Flow

P. Maltby 43, 91

- Initial Operation of a Scanning Stokes Polarimeter
Lewis L. House, Thomas G. Baur, and Howard K. Hull **45**, 495
- The Velocity Field Associated with the Birth of Sunspots
Ichiro Kawaguchi and Reizaburo Kitai **46**, 125
- Characteristics of the Displacement of the Penumbra Bright Grains of Sunspots
R. Muller **48**, 101
- On the Excited States of Magnetic Configurations in Connection with the Characteristic Properties of Sunspots
V. A. Krat and V. A. Osherovitch **50**, 65
- Pressure Equilibrium and Energy Balance of Small Photospheric Fluxtubes
H. C. Spruit **50**, 269
- On the Difference in Darkness between Sunspots
P. Maltby **55**, 335
- On Physical Conditions in the Chromosphere above Sunspot Umbrae
R. B. Teplitskaya, S. A. Grigoryeva (Efendieva), and V. G. Skochilov **56**, 293
- The Evershed Flow in the Transition Region Chromosphere-Photosphere
J. Bønes and P. Maltby **57**, 65
- On the Structure of Sunspots
V. A. Krat and G. F. Vyalshin **60**, 47
- The Fine Structure of Light-Bridges in Sunspots
R. Muller **61**, 297
- Measurement of Solar Rotation, 1978, from Recurrent and Non-Recurrent Sunspots
Mark Kearns **62**, 393
- On the Proper Motion of Small Pores in Sunspot Groups
J. P. Mehlretter **63**, 61
- Waves in the Sunspot Umbra
H. M. Antia and S. M. Chitre **63**, 67
- The Lifetimes of Sunspot Moats
Lindsey Pardon, Simon P. Worden, and Timothy J. Schneeberger **63**, 247
- Statistics of the Largest Sunspot and Facular Areas per Solar Cycle
D. M. Willis and Y. Kabasakal Tulunay **64**, 237
- On the Origin of Strong Downdrafts Associated with the Birth of Sunspots
Kazunari Shibata **66**, 61
- Solar Rotation Studies Using Sunspot Data (1967-1974)
Donald F. Neidig **66**, 205
- The Use of Solar Faculae in Studies of the Sunspot Cycle
G. M. Brown and D. R. Evans **66**, 233
- Latitude Variations of Photospheric Activity Areas with Particular Reference to Solar Faculae
G. M. Brown and D. R. Evans **68**, 141
- Alfvén Waves in Sunspots
Alan H. Nye and Joseph V. Hollweg **68**, 279
- Distribution of Sunspots 1874-1976
B. D. Yallop and C. Y. Hohenkerk **68**, 303
- A Refined Measurement of the Sunspot Radiative Flux Deficit
R. J. Bray **69**, 3
- OSO-8 Observations of Ca II H and K, Mg II h and k, $L\alpha$ and $L\beta$ above a Sunspot
F. Kneer, G. Scharmer, W. Mattig, A. Wyller, G. Artzner, P. Lemaire, and J. C. Vial **69**, 289
- Rotation Rate of High-Latitude Sunspots
Frances Tang **69**, 399
- Solar Rotation Velocity as Determined from Sunspot Drawings of J. Hevelius in the 17th Century
Claudia Abarbanell and Hubertus Wöhl **70**, 197
- The Size Dependence of Contrasts and Numbers of Small Magnetic Flux Tubes in an Active Region
H. C. Spruit and C. Zwaan **70**, 207
- Enhanced Emission of Alfvén Waves from Sunspots during Proton Flares
D. J. Mullan **70**, 381
- Umbral Oscillations as Resonant Modes of Magneto-Atmospheric Waves
Mark A. Scheuer and John H. Thomas **71**, 21

- High Resolution Spectroscopy of Solar Activity. I: Observing Procedures
L. E. Cram, R. D. Robinson, H. A. Mauter, G. R. Mann, and G. L. Phillis **71**, 237
- Solar Cycle Variation of Sunspot Intensity
F. Albregtsen and P. Maltby **71**, 269
- Preliminary Observation of Missing Energy Flux of Sunspot
Tadashi Hirayama and Tomizo Okamoto **73**, 37
- Additional Measurements of the High-Latitude Sunspot Rotation Rate
Donald A. Landman and Jill T. Takushi **73**, 379
- The Age Dependence of Photospheric Tracer Rotation
M. Ternullo, R. A. Zappalà, and F. Zuccarello **74**, 111
- Sunspot Populations and Their Relation with the Solar Cycle
J. I. García de la Rosa **74**, 117
- Possible Use of (a) Solar Faculae and (b) the Interplanetary Magnetic Field as Heralds of a Solar Cycle Peak
G. M. Brown **74**, 125
- On the Need for Space Observations of the Umbra/Photosphere Intensity Ratio
F. Albregtsen and P. Maltby **74**, 147
- Positions of Sunspot Groups and Solar Rotation
Jaakko Tuominen and Juhani Kyröläinen **74**, 153
- Motions and Lifetimes of the Penumbra Bright Grains in Sunspots
Klara Tönjes and Hubertus Wöhl **75**, 63
- The Effects of Sunspots on Solar Irradiance
H. S. Hudson, S. Silva, M. Woodard, and R. C. Willson **76**, 211
- The Revival of Solar Activity after Maunder Minimum in Reports and Observations of E. Manfredi
E. Baiada and R. Merighi **77**, 357
- The Angle of Inclination of the Sunspot Symmetry Axis to the Solar Surface
Saken Obashevich Obashev, Rimma Khaliullova Gainullina, Tamara Mikhajlovna Minasyants, and Genadij Sergeevich Minasyants **78**, 59
- Distribution of Sunspots According to Their Magnetic Fluxes
T. K. Das and M. K. Das Gupta **78**, 67
- Intensity Ratios of Spectral Cores Ca II K to H across a Sunspot
H. S. Yun and H. A. Beebe **78**, 347
- Umbral Oscillations in a Detailed Model Umbra
John H. Thomas and Mark A. Scheuer **79**, 19
- The Chromosphere above a Sunspot Umbra
H. A. Beebe, W. E. Baggett, and H. S. Yun **79**, 31
- The Structure of Sunspots. IV: Magnetic Field Strengths in Small Sunspots and Pores
J. J. Brants and C. Zwaan **80**, 251
- Size Variations in Regular Sunspots
R. D. Robinson and D. C. Boice **81**, 25
- On the Disappearance of a Small Sunspot Group
Steven G. Wallenhorst and Kenneth P. Topka **81**, 33
- An Emission Measure Analysis of Two Sunspots Observed by the UVSP Instrument on the SMM Spacecraft
A. E. Kingston, J. G. Doyle, P. L. Dufton, and J. B. Gurman **81**, 47
- On the Dynamics of the Chromosphere above Sunspots
Yu. D. Zhugzhda and V. I. Makarov **81**, 245
- High Resolution EUV Structure of the Chromosphere-Corona Transition Region above a Sunspot
K. R. Nicolas, O. Kjeldseth-Moe, J.-D. F. Bartoe, and G. E. Brueckner **81**, 253
- Seismology of Sunspot Atmospheres
Y. D. Žugžda, V. Locāns, and J. Staude **82**, 369
- Relationships between Photospheric Plasma Angular Velocity and Solar Activity
G. Godoli and F. Mazzucconi **83**, 339
- Naked Sunspots
Margaret Liggett and Harold Zirin **84**, 3
- Sunspot Bright Rings and the Thermal Diffusivity of Solar Convection
L. A. Fowler, P. Foukal, and T. Duvall, Jr. **84**, 33

On Photospheric and Chromospheric Penumbral WavesP. S. Cally and J. A. Adam **85**, 97**The Study of Umbral Flashes in the Umbrae of Two Sunspots**I. P. Turova, R. B. Teplitskaya, and G. V. Kuklin **87**, 7**On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. I: Comparison of Results from Different Observatories and Different Observing Procedures**Hubertus Wöhl **88**, 65**On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. II: Systematic Effects Caused by the Wilson Depression**Horst Balthasar and Hubertus Wöhl **88**, 71**SID Flares and Sunspot Morphology**Anthony Achong, Philip A. Stahl, and Cuthbert Nyack **88**, 137 *Errata* 90, 203**Observations of the Distribution of Transition Region Oscillations and Other Properties in a Sunspot**W. Henze, E. Tandberg-Hanssen, E. J. Reichmann, and R. G. Athay **91**, 33**A Digital Analysis of Sunspot Areas**G. A. Chapman and G. Groisman **91**, 45**On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. III: Effects Caused by Wrong Solar Image Radii and Their Corrections**Horst Balthasar, Günter Lustig, and Hubertus Wöhl **91**, 55**A Model of the Oscillations in the Chromosphere and Transition Region above Sunspot Umbrae**Y. D. Žugžda, J. Staude, and V. Locāns **91**, 219**The Observation of Intrinsically Different Emergences for Large and Small Active Regions**J. I. García de la Rosa **92**, 161**Plasma Motion in Umbrae and the Surrounding Photosphere Derived from Spectroscopic Doppler Measurements and Tracer Measurements of Spots**Axel Koch **93**, 53**Evidence for the 22-Year-Cycle in the Longitudinal Distribution of Sunspots**Horst Balthasar and Manfred Schüssler **93**, 177**Sunspot Activity According to Greenwich Observations (*Invited Review Paper*)**M. Kopecký **93**, 181**Broad-Band Circular Polarimetry of Sunspots, 0.4-1.7 Microns: Spatial Scans with a 3.4 Arc Sec Diameter Aperture**Gary D. Henson and James C. Kemp **93**, 289**Umbral Oscillations Measured in the Stokes-V Inversion Point**H. Balthasar and E. Wiehr **94**, 99**High-Resolution Spectroscopy of Active Regions. 1: Observing Procedures**C. Zwaan, J. J. Brants, and L. E. Cram **95**, 3**Interpretation of Oscillations in UV Lines Observed above Sunspot Umbrae**J. Staude, Y. D. Žugžda, and V. Locāns **95**, 37**The Interpretation of Sunspot Magnetic Field Observations**M. G. Adam **96**, 27**Morphological Evolution of an Emerging Flux Region**J. J. Brants and J. C. M. Steenbeek **96**, 229**Activity of Sunspots and Solar Constant Variations during 1980**Judit Pap **97**, 21**Variations in the Solar Rotation Rate Derived from Ca⁺ K Plage Areas**Jagdev Singh and T. P. Prabhu **97**, 203**VLA Observations of a Radio Plage at Centimeter Wavelengths**R. K. Shevgaonkar and M. R. Kundu **98**, 119**The Emergence of Magnetic Flux (*Invited Review Paper*)**Cornelis Zwaan **100**, 397**Sunspots, Chromosphere (*see Sunspots*)****Sunspots, Convection Zone (*see Sunspots*)****Sunspots, Evershed Effect (*see Sunspots, Velocity*)**

- Sunspots, Evolution** (*see Sunspots*)
- Sunspots, Light Bridges** (*see Sunspots*)
- Sunspots, Magnetic Fields**
- Magnetic Fields in Small and Young Spots
V. Bumba 1, 371
- High-Resolution Measurements of Photosphere and Sunspot Velocity and Magnetic Fields Using a Narrow-Band Birefringent Filter
J. M. Beckers 3, 258
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. I: Observational Technique, Properties of Magnetic Knots
J. M. Beckers and E. H. Schröter 4, 142
- Sur une particularité de la composante π du triplet normal dans l'ombre d'une tache
J. C. Henoux 4, 315
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. III: On the Origin of the Apparent π Component in Sunspot Umbrae
J. M. Beckers and E. H. Schröter 7, 22
- The Fine Structure of Magnetic Fields in Sunspots and the Dependence of the Magnetic Field on the Spot Area
M. Kopecký 7, 26
- Interpretation of Infrared Oxygen Spectroheliograms
Richard C. Altrock 7, 43
- Chromospheric Inhomogeneities in Sunspot Umbrae
Jacques M. Beckers and Paul E. Tallent 7, 351
- The Geometrical Height-Scale and the Pressure Equilibrium in the Sunspot Umbra
W. Mattig 8, 291
- On π -Components in Zeeman-Split Lines of the Umbra Spectrum
J. P. Mehlretter 9, 387
- Magnetic 'Knots' in the Solar Photosphere
H. I. Abdussamatov and V. A. Krat 9, 420
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. IV: Properties of a Unipolar Sunspot
J. M. Beckers and E. H. Schröter 10, 384
- Penumbral Magnetic Field Strengths
E. A. Mallia 11, 31
- Electric Current in a Sunspot
R. Jayanthan 12, 104
- On the Magnetic Field in Pores
G. W. Simon and N. O. Weiss 13, 85
- Photoelectric Polarimetry of a Dark Unipolar Sunspot
F.-L. Deubner and R. Göhring 13, 118
- Zeeman Splitting of Molecular Lines in Sunspot Spectra
E. A. Mallia 14, 125
- On the Magnetic Fields and Motions in Sunspots at Different Atmospheric Levels
H. I. Abdussamatov 16, 384
- A Magnetostatic Sunspot Model with 'Twisted' Field
Hong Sik Yun 16, 398
- On Apparent Differences in Magnetic Field Strengths Measured from Zeeman Splittings of Molecular Lines and Fe I $\lambda 5250.2 \text{ \AA}$
Jürgen Staude 17, 331
- The Crossover and Magneto-Optical Effects in Sunspot Spectra
V. M. Grigorjev and J. M. Katz 22, 119
- Magnetic Fields in Umbral Atmospheres under 'Similarity' Configuration
Hong Sik Yun 22, 137
- On the Interpretation of the π -Component Splitting in Sunspot Spectra
V. N. Obridko and L. B. Demkina 24, 336
- Observations of Moving Magnetic Features near Sunspots
K. Harvey and J. Harvey 28, 61

On Some Characteristics of Umbral Fine StructureF. Kneer **28**, 361**On the Interpretation of Some Peculiarities Observed in Zeeman-Split Line Contours in Sunspots**Jürgen Staude **32**, 403**Temporal Variations of the Magnetic Field in Sunspots**R. B. Schultz and O. R. White **35**, 309**On Polarimetry in Solar Active Regions. VII: A New Zeeman Polarimeter and Its Advantages as Compared to Other Designs**E. Wiehr **35**, 351**Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. III: Magnetic Field Structure of Spot Mt. Wilson 18488**A. Wittmann **36**, 29**On the Turbulent Decay of Strong Magnetic Fields and the Development of Sunspot Areas**F. Krause and G. Rüdiger **42**, 107**Initial Operation of a Scanning Stokes Polarimeter**Lewis L. House, Thomas G. Baur, and Howard K. Hull **45**, 495**On Fine Structure of the Magnetic Field and Brightness in the Penumbrae of Sunspots**H. I. Abdussamatov **48**, 117**Intense Magnetic Fields and Umbral Dots**B. Roberts **50**, 329**The Spiral Configuration of Sunspot Magnetic Fields**M. J. Hagyard, E. A. West, and N. P. Cumings **53**, 3**Comparisons of Measured and Calculated Potential Magnetic Fields**M. J. Hagyard and D. Teuber **57**, 267**Magneto-Optical Effects and the Interpretation of Linearly Polarized Intensity Distributions Observed with a Vector Magnetograph**E. Landi Degl'Innocenti **63**, 237**A Description of the Sunspot-Twisted Magnetic Field under 'Similarity' Assumption**V. A. Osherovitch **64**, 261**A Note on Permissible Values of the Vertical Gradient of the Sunspot Magnetic Field**V. A. Osherovitch **68**, 297**Vector Magnetic Fields in Sunspots. I: Weak-Line Observations**Joseph B. Gurman and Lewis L. House **71**, 5**A New Magneto-Hydrostatic Theory of Sunspots**V. A. Osherovitch **77**, 63**Distribution of Sunspots According to Their Magnetic Fluxes**T. K. Das and M. K. Das Gupta **78**, 67**The Measurement of Magnetic Fields in the Solar Atmosphere above Sunspots Using Gyroresonance Emission**Sh. B. Akhmedov, G. B. Gelfreikh, V. M. Bodog, and A. N. Korzhavin **79**, 41**Three-Dimensional Structure of Atmospheric Magnetic Fields in Two Active Regions**Ronald G. Giovanelli and Harrison P. Jones **79**, 267**Sunspot Geometry and Pressure Balance**Ronald G. Giovanelli **80**, 21**The Structure of Sunspots. IV: Magnetic Field Strengths in Small Sunspots and Pores**J. J. Brants and C. Zwaan **80**, 251**Potential Models of the Unipolar Sunspot Magnetic Field**V. V. Denisenko, V. A. Kotov, V. A. Romanov, and V. S. Sokolov **81**, 217**Observations of the Longitudinal Magnetic Field in the Transition Region and Photosphere of a Sunspot**W. Henze, Jr., E. Tandberg-Hanssen, M. J. Hagyard, B. E. Woodgate, R. A. Shine, J. M. Beckers, M. Bruner, J. B. Gurman, C. L. Hyder, and E. A. West **81**, 231**Non-Axisymmetric Magnetostatic Equilibrium. I: A Perturbation Theory**W. R. Hu, Y. Q. Hu, and B. C. Low **83**, 195**Vertical Gradients of Sunspot Magnetic Fields**M. J. Hagyard, D. Teuber, E. A. West, E. Tandberg-Hanssen, W. Henze, Jr., J. M. Beckers, M. Bruner, C. L. Hyder, and B. W. Woodgate **84**, 13

Simple Models for Magnetic Flux Tubes

G. W. Simon, N. O. Weiss, and A. H. Nye **87**, 65

Interpretation of Vector Magnetograph Data Including Magneto-Optic Effects. I: Azimuth Angle of the Transverse Field

E. A. West and M. J. Hagyard **88**, 51

On the Height of Magnetic Fields above Sunspots Derived from RATAN-600 Observations

Sh. B. Akhmedov, G. B. Gelfreikh, F. Fürstenberg, J. Hildebrandt, and A. Krüger **88**, 103

Sunspot Models with Twisted Magnetic Field

Vladimir Osherovich and T. Flaa **88**, 109

Elaboration of the New Magnetohydrostatic Sunspot Theory (Double Return Flux Model)

Vladimir A. Osherovich and J. K. Lawrence **88**, 117

On the Origin of δ Spots

Frances Tang **89**, 43

A Note on the Values of the Vertical Gradient of the Magnetic Field in the Return Flux Sunspot Model

Vladimir Osherovich **90**, 31

Observations of the Distribution of Transition Region Oscillations and Other Properties in a Sunspot

W. Henze, E. Tandberg-Hanssen, E. J. Reichmann, and R. G. Athay **91**, 33

On Umbral Flashes in Different Sunspot Groups

I. P. Turova **91**, 51

On the Diagnostic of Magnetic Fields in Sunspots through the Interpretation of Stokes Parameters Profiles

M. Landolfi, E. Landi Degl'Innocenti, and P. Arena **93**, 269

High-Resolution Spectroscopy of Active Regions. 1: Observing Procedures

C. Zwaan, J. J. Brants, and L. E. Cram **95**, 3

High-Resolution Spectroscopy of Active Regions. 2: Line-Profile Interpretation, Applied to an Emerging Flux Region

J. J. Brants **95**, 15

The Interpretation of Sunspot Magnetic Field Observations

M. G. Adam **96**, 27

Sunspots, Models**A Model of the Sunspot Umbra**

S. M. Chitre and G. Shaviv **2**, 150

The Structure of a Sunspot. I: The Birth and Development of a Sunspot

P. R. Wilson **3**, 243

A Study of the Green TiO Band in the Sunspot Spectrum

Mitsugu Makita **3**, 557

Sunspot Intensities and Their Correction for Scattered Light

F. Kneer and W. Mattig **5**, 42

On the Center-to-Limb Variation of Sunspot Brightness

W. Mattig **6**, 413

Far Infrared Observation of a Sunspot

Pierre Léna **7**, 217

The Intensity of the Penumbra of Large Sunspots

P. Maltby and N. Mykland **8**, 23

A Model for the Penumbra of Sunspots

O. Kjeldseth Moe and P. Maltby **8**, 275

Gas-Pressure and Pressure-Stratification in the Sunspot

H. Ruhm **10**, 104

The Intensity, Velocity and Magnetic Structure of a Sunspot Region. V: On the Gradients of Temperature and Pressure in Sunspots

A. Wittman and E. H. Schröter **10**, 357

A Complete Photoelectric Sunspot Spectrum: an Atlas from 3900 to 8000 Å

H. Wöhl, A. Wittmann, and E. H. Schröter **13**, 104

High Resolution Solar Images at 10 Microns: Sunspot Detail and Photometry

P. J. Turon and P. J. Léna **14**, 112

On Rotational Temperatures of Umbrae

H. Wöhl **15**, 342

- The Molecular Spectrum of Sunspots
John C. Webber **16**, 340
- A New Empirical Model of a Sunspot Umbra
Hong Sik Yun **16**, 379
- The Structure of Sunspots. I: Observational Constraints, Current Sheet Models
M. H. Gokhale and C. Zwaan **26**, 52
- On Some Characteristics of Umbral Fine Structure
F. Kneer **28**, 361
- Width of Emission Cores of the Line K Ca II in Sunspots
R. B. Teplitskaya and S. A. Efendieva **28**, 369
- On the Possibility of Constructing a Radiative Sunspot Model in Magnetohydrostatic Equilibrium
D. J. Mullan **30**, 75
- On the Interpretation of Some Peculiarities Observed in Zeeman-Split Line Contours in Sunspots
Jürgen Staude **32**, 403
- A Simple Magnetostatic Model of Sunspots
F. H. Busse **33**, 413
- The Cooling of a Sunspot. IV: Reply to D. J. Mullan
P. R. Wilson **35**, 111
- Comments on Wilson's Model of Cooling of a Sunspot
M. H. Gokhale **35**, 323
- The Temperature of Penumbral Filaments
O. Kjeldseth Moe and P. Maltby **36**, 101
- Models for Different Sunspot Umbrae
O. Kjeldseth Moe and P. Maltby **36**, 109
- The Nature of the Sunspot Phenomenon. I: Solutions of the Heat Transport Equation
E. N. Parker **36**, 249
- Structure of Sunspots. II: A Continuum Model Atmosphere for Dark Umbral Cores
Cornelis Zwaan **37**, 99
- The Cooling of a Sunspot. V: Reply to M. H. Gokhale
P. R. Wilson **37**, 483
- The Nature of Running Penumbral Waves
Alan H. Nye and John H. Thomas **38**, 399
- Sunspot and Stray Light Observations during the 1971, February 25 Partial Solar Eclipse
J. Köppen **42**, 325
- Alfvén Waves and the Sunspot Phenomenon
P. R. Wilson **42**, 333
- Structure of Sunspots. III: A Minimum-Gradient Model Atmosphere for Umbrae
Cornelis Zwaan **45**, 115
- Emission Measures and Structure of the Transition Region of a Sunspot from Emission Lines in the Far Ultraviolet
Chung-Chieh Cheng and O. Kjeldseth Moe **52**, 327
- On the Difference in Darkness between Sunspots
P. Maltby **55**, 335
- The Gross Energy Balance of Solar Active Regions
Kenton D. Evans, J. P. Pye, R. J. Hutcheon, M. Gerassimenko, A. S. Krieger, J. M. Davis, and J. F. Vesecky **55**, 387
- On Physical Conditions in the Chromosphere above Sunspot Umbrae
R. B. Teplitskaya, S. A. Grigoryeva (Efendieva), and V. G. Skochilov **56**, 293
- On the Presence of SH in the Sunspot Spectrum
G. C. Joshi and M. C. Pande **62**, 69
- (A-X) System of SiO in Sunspots
G. C. Joshi, L. M. Punetha, and M. C. Pande **62**, 77
- Molecular Line Haze Opacity in Sunspots
V. P. Gaur, M. C. Pande, and M. Sah **62**, 83
- Thermal Models of Sunspots
Alfred Clark, Jr. **62**, 305

- Radiation Transfer through a Model Sunspot
Donald A. Landman and Gerard D. Finn 63, 221
- On the Infrared Opacity of Sunspots
G. C. Joshi, L. M. Punetha, and M. C. Pande 64, 255
- Exact Static Equilibrium of Vertically Oriented Magnetic Flux Tubes. I: The Schlüter-Temesváry Sunspot
B. C. Low 67, 57
- Umbral Oscillations as Resonant Modes of Magneto-Atmospheric Waves
Mark A. Scheuer and John H. Thomas 71, 21
- Umbral Oscillations in a Detailed Model Umbra
John H. Thomas and Mark A. Scheuer 79, 19
- The Chromosphere above a Sunspot Umbra
H. A. Beebe, W. E. Baggett, and H. S. Yun 79, 31
- Sunspot Geometry and Pressure Balance
Ronald G. Giovanelli 80, 21
- High Resolution EUV Structure of the Chromosphere-Corona Transition Region above a Sunspot
K. R. Nicolas, O. Kjeldseth-Moe, J.-D. F. Bartoe, and G. E. Brueckner 81, 253
- Seismology of Sunspot Atmospheres
Y. D. Žugžda, V. Locāns, and J. Staude 82, 369
- Non-Axisymmetric Magnetostatic Equilibrium. I: A Perturbation Theory
W. R. Hu, Y. Q. Hu, and B. C. Low 83, 195
- Umbral Oscillations in the Presence of a Spreading Magnetic Field
P. S. Cally 88, 77
- Elaboration of the New Magnetohydrostatic Sunspot Theory (Double Return Flux Model)
Vladimir A. Osherovich and J. K. Lawrence 88, 117
- A Note on the Values of the Vertical Gradient of the Magnetic Field in the Return Flux Sunspot Model
Vladimir Osherovich 90, 31
- On the Temperature Structure of Sunspot Umbrae
A. A. van Ballegooijen 91, 195
- A Model of the Oscillations in the Chromosphere and Transition Region above Sunspot Umbrae
Y. D. Žugžda, J. Staude, and V. Locāns 91, 219
- A Model of a Penumbra Chromosphere
H. S. Yun, H. A. Beebe, and W. Baggett 92, 145
- Magnetic Flux Tube in a Stratified Atmosphere under the Influence of the Vertical Magnetic Field
Vladimir A. Osherovich 94, 207
- Sunspots, Morphology (*see Sunspots*)**
- Sunspots, Penumbra**
- The Evershed Effect as a Wave Phenomenon
P. Maltby and G. Eriksen 2, 249
- The Structure of a Sunspot. II: The Magnetohydrodynamics of the Penumbra
P. R. Wilson 3, 454
- The Effect of Magneto-Sonic Waves on a Zeeman Triplet with Application to Sunspots
P. Maltby 4, 96
- Interpretation of Infrared Oxygen Spectroheliograms
Richard C. Altrock 7, 343
- The Intensity of the Penumbra of Large Sunspots
P. Maltby and N. Mykland 8, 23
- A Model for the Penumbra of Sunspots
O. Kjeldseth Moe and P. Maltby 8, 275
- On the Chromospheric Velocity Field in Sunspot Regions
E. Haugen 9, 88
- Penumbra Magnetic Field Strengths
E. A. Mallia 11, 31
- A Complete Photoelectric Sunspot Spectrum: an Atlas from 3900 to 8000 Å
H. Wöhl, A. Wittmann, and E. H. Schröter 13, 104

- On the Motion of Penumbra Filaments in Sunspots
H. I. Abdussamatov and V. A. Krat **14**, 132
- Magnetically Non Split Lines in Penumbrae
G. Stellmacher and E. Wiehr **17**, 21
- On Equivalent Widths in a Penumbral Spectrum (A Test of the Moe-Maltby Model)
H. Schleicher and E. H. Schröter **17**, 31
- Sunspot Intensity Observations during the 9 May 1970 Mercury Transit
P. Maltby and L. Staveland **18**, 443
- Observation of Filamentary Structure in Sunspot Umbrae
D. Papathanasoglou **21**, 113
- On the Fine Structure of the Evershed Effect
M. Mamadazimov **22**, 129
- Observations of the Intensity of the Penumbra of Sunspots
P. Maltby **26**, 76
- On the Sunspot Structure
V. A. Krat, V. N. Karpinsky, and L. M. Pravdjuk **26**, 305
- Oscillatory Motions in Sunspots
J. M. Beckers and R. B. Schultz **27**, 61
- Oscillations and Waves in a Sunspot
R. G. Giovanelli **27**, 71
- Width of Emission Cores of the Line K Ca II in Sunspots
R. B. Teplitskaya and S. A. Efendieva **28**, 369
- Étude morphologique et cinématique des structures fines d'une tache solaire
R. Muller **29**, 55
- A Morphological Study of the Light-Bridges in Sunspots
M. Vazquez **31**, 377
- Étude photométrique des structures fines de la pénombre d'une tache solaire
R. Muller **32**, 409
- Coronal Prominences on the Disk Observed on 29 October 1972
Ichiro Kawaguchi and Reizaburo Kitai **33**, 145
- The Depth of Sunspots
Th. Prokakis **35**, 105
- On Polarimetry in Solar Active Regions. VII: A New Zeeman Polarimeter and Its Advantages as Compared to Other Designs
E. Wiehr **35**, 351
- The Temperature of Penumbral Filaments
O. Kjeldseth Moe and P. Maltby **36**, 101
- The Crossover Effect in Sunspots and the Fine Structure of Penumbra
A. A. Golovko **37**, 113
- The Relation between the Intensities of Umbra and Penumbra of Large Sunspots
G. Ekmann **38**, 73
- The Nature of Running Penumbral Waves
Alan H. Nye and John H. Thomas **38**, 399
- Fine Structure and Evershed Motions in the Sunspot Penumbra
D. J. Galloway **44**, 409
- Characteristics of the Displacement of the Penumbral Bright Grains of Sunspots
R. Muller **48**, 101
- On Fine Structure of the Magnetic Field and Brightness in the Penumbrae of Sunspots
H. I. Abdussamatov **48**, 117
- Umbral Boundaries, Convection, and the Depth of Sunspots
Philip A. Isenberg **50**, 49
- Waves in the Sunspot Penumbra
H. M. Antia, S. M. Chitre, and M. H. Gokhale **60**, 31
- On the Structure of Sunspots
V. A. Krat and G. F. Vyalshin **60**, 47

- A Continuum Bright Point at the Penumbral Edge
H. Zirin and R. L. Moore 67, 79
- A Refined Measurement of the Sunspot Radiative Flux Deficit
R. J. Bray 69, 3
- On the Need for Space Observations of the Umbra/Photosphere Intensity Ratio
F. Albrechtsen and P. Maltby 74, 147
- Motions and Lifetimes of the Penumbral Bright Grains in Sunspots
Klara Tönjes and Hubertus Wöhl 75, 63
- On the Width Distribution of Penumbral Filaments in Sunspots
J. A. Bonet, J. D. Ponz, and M. Vazquez 77, 69
- Sunspot Geometry and Pressure Balance
Ronald G. Giovanelli 80, 21
- On Photospheric and Chromospheric Penumbral Waves
P. S. Cally and J. A. Adam 85, 97
- The Color Temperature of a Sunspot Penumbra
Bruce W. Lites 90, 1
- A Model of a Penumbral Chromosphere
H. S. Yun, H. A. Beebe, and W. Baggett 92, 145
- Broad-Band Circular Polarimetry of Sunspots, 0.4-1.7 Microns: Spatial Scans with a 3.4 Arc Sec Diameter Aperture
Gary D. Henson and James C. Kemp 93, 289
- Umbral Oscillations Measured in the Stokes-V Inversion Point
H. Balthasar and E. Wiehr 94, 99
- On the Spatial Structure of a Penumbra
R. B. Teplitskaya 95, 45
- On the Structure of Sunspot Penumbra
R. Muller 98, 51
- Sunspots, Photosphere** (*see Sunspots*)
- Sunspots, Pores** (*see Sunspots*)
- Sunspots, Proper Motion** (*see Sunspots, Velocity*)
- Sunspots, Spectrum**
- On the K Line of Ca II in Sunspots
O. Engvold 2, 234
- A Study of the Green TiO Band in the Sunspot Spectrum
Mitsugu Makita 3, 557
- Far Infrared Observation of a Sunspot
Pierre Léna 7, 217
- The Intensity of the Penumbra of Large Sunspots
P. Maltby and N. Mykland 8, 23
- A Model for the Penumbra of Sunspots
O. Kjeldseth Moe and P. Maltby 8, 275
- On the Position of Sunspots in the Core of H α Relative to the Continuum
Oddbjörn Engvold 8, 284
- The Geometrical Height-Scale and the Pressure Equilibrium in the Sunspot Umbra
W. Mattig 8, 291
- On π -Components in Zeeman-Split Lines of the Umbra Spectrum
J. P. Mehlretter 9, 387
- On H $_2$ O in Sunspots
H. Wöhl 9, 394
- On the Absence of the (0,0) C $_2$ Swan Band from Sunspot Spectra
David Branch 10, 112
- On Some Flare-Sensitive High Photospheric and Low Chromospheric Lines
Yngve Öhman 10, 178

- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. IV: Properties of a Unipolar Sunspot
J. M. Beckers and E. H. Schröter **10**, 384
- The Diatomic Molecules BH, BN, and BO in Sunspots and the Solar Abundance of Boron
O. Engvold **11**, 183
- The Possible Existence of HOH Lines in the Sunspot Spectrum
E. A. Mallia and D. E. Blackwell **12**, 101
- A Complete Photoelectric Sunspot Spectrum: an Atlas from 3900 to 8000 Å
H. Wöhl, A. Wittmann, and E. H. Schröter **13**, 104
- On the Continuum Intensity of the Umbra of Large Sunspots
P. Maltby **13**, 312
- Zeeman Splitting of Molecular Lines in Sunspot Spectra
E. A. Mallia **14**, 125
- Self-Reversal of the Lithium Resonance Doublet in Sunspots
P. Maltby and O. Engvold **14**, 129
- On the Motion of Penumbra Filaments in Sunspots
H. I. Abdussamatov and V. A. Krat **14**, 132
- Europium and Lanthanum in Sunspot and in the Undisturbed Photosphere
G. Bachmann, K. Pflug, and J. Staudé **15**, 113
- Continuum Windows in Spectra of Umbrae (4000-8000 Å)
H. Wöhl **15**, 338
- An Upper Limit of the Swan Band Intensity in a Sunspot Spectrum
Aert Schadee **15**, 345
- The Molecular Spectrum of Sunspots
John C. Webber **16**, 340
- On Molecules in Sunspots
H. Wöhl **16**, 362
- Magnetically Non Split Lines in Penumbrae
G. Stellmacher and E. Wiehr **17**, 21
- On Equivalent Widths in a Penumbral Spectrum (A Test of the Moe-Maltby Model)
H. Schleicher and E. H. Schröter **17**, 31
- Isotopes of Magnesium in the Solar Atmosphere
R. Boyer, J. C. Henoux, and P. Sotirovski **19**, 330
- Prominent Zeeman Lines in Sunspot Spectra and Their Temperature Sensitivity
A. Wittmann **20**, 78
- Further Study of H₂O Lines in the Umbral Spectrum in the Region of 0.93 μ
E. A. Mallia, D. E. Blackwell, and A. D. Petford **20**, 369
- The Influence of the Sunspot Model on the Li-Abundance
G. Stellmacher and E. Wiehr **21**, 96
- The Crossover and Magneto-Optical Effects in Sunspot Spectra
V. M. Grigorjev and J. M. Katz **22**, 119
- Photoelectric Line Profiles in Umbral Spectra
T. D. Fay, A. A. Wyller, and H. S. Yun **23**, 58
- Detection of Blends in the Vicinity of Zeeman Lines
A. Wittmann **23**, 294
- On C₂ Lines in Sunspot Spectra
Hubertus Wöhl **24**, 342
- C₂ in Sunspots
J. W. Harvey **24**, 354
- Observations of the Intensity of the Penumbra of Sunspots
P. Maltby **26**, 76
- Water Vapour in Sunspots
L. Staveland **26**, 90
- Thallium in the Solar Atmosphere
D. L. Lambert, E. A. Mallia, and G. Smith **26**, 250
- Polarization of Red System CN Lines in Sunspots
J. W. Harvey **28**, 43

The Possible Presence of C₂ Lines in Sunspot Spectra

D. L. Lambert and E. A. Mallia 31, 123

The Influence of Molecular Blends and Non-Thermal Line Broadening on the Profile of the Zeeman Triplet λ 5250.22 in Sunspots

Olav Kjeldseth Moe 33, 393

Umbral Intensities of Large Sunspots

G. Ekmann and P. Maltby 35, 317

Sub- and Superhydrostatic Equilibrium in Sunspots

W. Mattig 36, 275

Structure of Sunspots. II: A Continuum Model Atmosphere for Dark Umbral Cores

Cornelis Zwaan 37, 99

The Crossover Effect in Sunspots and the Fine Structure of Penumbra

A. A. Golovko 37, 113

The Brightening of Sunspot Umbra Observed on 29 October, 1972

Jun Kubota, Tatsuo Tamenaga, Ichiro Kawaguchi, and Reizaburo Kitai 38, 389

Magnetoactive Lines in the Medium with the Velocity Gradient

V. M. Grigorjev and J. M. Katz 42, 21

Vibration Rotation Bands of NO in Sunspots

V. P. Gaur 46, 121

Shapes and Centre-to-Limb Variation of the H and K Lines in Sunspot Umbrae

R. B. Teplitskaya and N. M. Firstova 48, 103

On Fine Structure of the Magnetic Field and Brightness in the Penumbrae of Sunspots

H. I. Abdussamatov 48, 117

Emission Measures and Structure of the Transition Region of a Sunspot from Emission Lines in the Far Ultraviolet

Chung-Chieh Cheng and O. Kjeldseth Moe 52, 327

On AIF Lines in Sunspots

P. S. Murty 54, 377

Vibration Rotation Bands of SiO in Sunspots

V. P. Gaur, M. C. Pande, and B. M. Tripathi 56, 67

On the Gamma System on Nitric Oxide in Sunspots

G. C. Joshi, M. C. Pande, and D. S. Shukla 58, 343

Isotopic Lines of SiO in Sunspots

M. C. Pande and G. C. Joshi 59, 353

Observations of the Mg I and II Resonance Lines in an Active Region

Marc S. Allen and Howard C. McAllister 60, 251

On the Presence of SH in the Sunspot Spectrum

G. C. Joshi and M. C. Pande 62, 69

(A-X) System of SiO in Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 62, 77

Molecular Line Haze Opacity in Sunspots

V. P. Gaur, M. C. Pande, and M. Sah 62, 83

On the O₂ Schumann-Runge Band System in Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 63, 79

On Magnesium Monoxide Lines in Sunspot Spectra

P. S. Murty 63, 83

On the Infrared Opacity of Sunspots

G. C. Joshi, L. M. Punetha, and M. C. Pande 64, 255

OSO-8 Observations of Ca II H and K, Mg II h and k, L α and L β above a Sunspot

F. Kneer, G. Scharmer, W. Mattig, A. Wyller, G. Artzner, P. Lemaire, and J. C. Vial 69, 289

Intensity Ratios of Spectral Core β Ca II K to H across a Sunspot

H. S. Yun and H. A. Beebe 78, 347

The Chromosphere above a Sunspot Umbra

H. A. Beebe, W. E. Baggett, and H. S. Yun 79, 31

An Emission Measure Analysis of Two Sunspots Observed by the UVSP Instrument on the SMM Spacecraft

A. E. Kingston, J. G. Doyle, P. L. Dufton, and J. B. Gurman 81, 47

- High Resolution EUV Structure of the Chromosphere-Corona Transition Region above a Sunspot
K. R. Nicolas, O. Kjeldseth-Moe, J.-D. F. Bartoe, and G. E. Brueckner **81**, 253
- The Color Temperature of a Sunspot Penumbra
Bruce W. Lites **90**, 1
- On the Temperature Structure of Sunspot Umbrae
A. A. van Ballegoijen **91**, 195
- High-Resolution Spectroscopy of Active Regions. I: Observing Procedures
C. Zwaan, J. J. Brants, and L. E. Cram **95**, 3
- Sunspots, Statistics**
- Secularly Smoothed Data on the Minima and Maxima of Sunspot Frequency
W. Gleissberg **2**, 231
- Some Features of Relative Sunspot Number during the Declining Phase of Solar Cycle 19
B. N. Bhargava **3**, 351
- On the Relation between the Solar Activity Cycle and the Solar Tidal Force Induced by the Planets
Kozo Takahashi **3**, 598
- On the Relation between Sunspot Area Changes and Flare Occurrences
K. R. Sivaraman **6**, 152
- Reply to K. R. Sivaraman
Robert Howard **6**, 154
- Observation of the Solar Soft X-Ray Component: Study of Its Relation to Transient and Slowly-Varying Phenomena Observed at Other Wavelengths
Richard G. Teske **6**, 193
- On the Problem of Active Longitudes of Sunspots and Flares
Ju. I. Vitinskij **7**, 210
- Sunspot Motion Statistics for 1965-67
Helen E. Coffey and Peter A. Gilman **9**, 423
- On a Relation between the Indices of Solar Activity in the Photosphere and the Corona
John Xanthakis **10**, 168
- On the Connection between N-S and E-W Solar Asymmetries
A. M. Cantù, G. Godoli, and G. Poletto **15**, 356
- On the Reliability of the Catania Sunspot Area Measurements
G. Godoli, O. Morgante, and M. L. Sturiale **16**, 72
- Soft Solar X-Rays and Solar Activity. V: Relation of the Course of Soft X-Ray Fluctuations to the Course of Solar Activity, 9 March, 1967-18 May, 1968
Richard G. Teske **19**, 356
- The Asymmetry of Solar Activity in the Years 1959-1969
M. Waldmeier **20**, 332
- A Feature of the Secularly Smoothed Maxima of Sunspot Frequency
R. Henkel **20**, 345
- A New Representation of the 80-Year Cycle in Sunspot Frequency
Renate Hartmann **21**, 246
- Faculae and East-West Asymmetry of Sunspot Area
C. Sawyer and M. W. Haurwitz **23**, 429
- Evidence for Two Maxima of Activity in the 20th Solar Cycle
S. Cuperman and A. Sternlieb **25**, 493
- Differential Rotation in the Solar Atmosphere Inferred from Optical, Radio, and Interplanetary Data
Mohamed El-Raey and Philip H. Scherrer **26**, 15
- Solar Activity and the Variations of the Geomagnetic K_p -Index. I: Photospheric Activity
John T. Mariska and Ludwig Oster **26**, 241
- Periodicities in the Longitude Distribution of Sunspots
W. Stanek **27**, 89
- A Secondary Polar Zone of Solar Prominences
M. Waldmeier **28**, 389
- Short Periodicities in Solar Activity
K. Ramanuja Rao **29**, 47

- The East-West Asymmetry in the Number of Spot-Groups in Relation to Their Classification
Reinhart Bartsch 30, 93
- Periodicities in Solar Activity
T. W. Cole 30, 103
- Correlation and Spectral Analysis of Daily Solar Radio Flux
Mohamed El-Raey and Phillip Scherrer 30, 149
- Revision of the Probability Laws of Sunspot Variations
W. Gleissberg 30, 539
- Recurrent Magnetic Activity, Sunspot Number and Its Rate of Decline
B. N. Bhargava and G. K. Rangarajan 40, 235
- Comments on the Course of Solar Activity during the Declining Phase of Solar Cycle 20 (1970-74)
H. W. Dodson and E. R. Hedeman 42, 121
- Frequency of Coronal Transients and Solar Activity
E. Hildner, J. T. Gosling, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross 48, 127
- Essential Features of the 11-Year Solar Cycle
M. N. Gnevyshev 51, 175
- A Forecast of Solar Activity for the 21st Solar Cycle
J. Xanthakis and C. Poulakos 56, 467
- A Sunspot Analysis: 1943-1977
M. G. Fracastoro and D. Marocchi 60, 171
- Statistics of the Largest Sunspot and Facular Areas per Solar Cycle
D. M. Willis and Y. Kabasakal Tulunay 64, 237
- Relationship between Sunspot Numbers during Years of Sunspot Maximum and Sunspot Minimum
R. P. Kane and N. B. Trivedi 68, 135
- Latitude Variations of Photospheric Activity Areas with Particular Reference to Solar Faculae
G. M. Brown and D. R. Evans 68, 141
- Ten Cycles of Solar and Geomagnetic Activity
J. P. Legrand and P. A. Simon 70, 173
- Mathematical Modelling of the Sunspot Cycle
F. De Meyer 70, 259
- Similar Periodicities in the Range 12 to 150 Days in Solar, Ionospheric and Atmospheric Time Series
W. Elling and H. Schwentek 74, 373
- Recurrence of Solar Activity: Evidence for Active Longitudes
Richard S. Bogart 76, 155
- On Long-Term Periodicities in the Sunspot Cycle
Steven G. Wallenhorst 80, 379
- The Maunder Minimum: A Reappraisal
John A. Eddy 89, 195
- On the Existence of Long-Term Periodicities in Solar Activity
J. A. Otaola and G. Zenteno 89, 209
- Evidence for the 22-Year-Cycle in the Longitudinal Distribution of Sunspots
Horst Balthasar and Manfred Schüssler 93, 177
- Sunspot Activity According to Greenwich Observations (*Invited Review Paper*)
M. Kopecký 93, 181
- Long-Term Fluctuations of Solar Activity during the Last Thousand Years
L. Křivský 93, 189
- A Possible Relationship between Spectral Bands in Sunspot Number and the Space-Time Organization of Our Planetary System
H. Schwentek and W. Elling 93, 403
- On the R_z -Sunspot Relative Number Variations
M. R. Attolini, M. Galli, and G. Cini Castagnoli 95, 391

Sunspots, Superpenumbra (*see Sunspots*)

Sunspots, Temperature (*see Sunspots, Models*)

Sunspots, Theory
Electrical Conductivity Gradients in Sunspots

Martin D. Altschuler **1**, 377

Some Features of Relative Sunspot Number during the Declining Phase of Solar Cycle 19

B. N. Bhargava **3**, 351

The Structure of a Sunspot. II: The Magnetohydrodynamics of the Penumbra

P. R. Wilson **3**, 454

Concerning the Origin of Evershed Motion in Sunspots

Martin D. Altschuler, Yoshinari Nakagawa, and Carl G. Lilliequist **3**, 466 *Addendum 4*, 264

Convective Instability and Overstability in the Sunspot Umbra

Mamoru Saitō and Shoji Kato **3**, 531

The Electrical Conductivity in Sunspot Regions

Ludwig Oster **3**, 543

The Evershed Motion in Sunspots

S. M. Chitre **4**, 168

The Structure of a Sunspot. IV: A Two-Dimensional Radiative Transfer Analysis of Center-Limb Intensity Profiles

P. R. Wilson **5**, 338

On a More Precise Calculation of the Electric Conductivity in the Photosphere and in Sunspots

M. Kopecký and G. V. Kuklin **6**, 241

The Geometrical Height-Scale and the Pressure Equilibrium in the Sunspot Umbra

W. Mattig **8**, 291

The Mean Temperature Gradient in the Umbra

P. R. Wilson **9**, 391

The Wilson Effect and the Transparency of Sunspot Models

E. Jensen, R. Brahde, and P. Ofstad **9**, 397

The Intensity, Velocity and Magnetic Structure of a Sunspot Region. V: On the Gradients of Temperature and Pressure in Sunspots

A. Wittman and E. H. Schröter **10**, 357

On the Properties of Umbral Dots

P. R. Wilson **10**, 404

On the Magnetic Field in Pores

G. W. Simon and N. O. Weiss **13**, 85

The Umbral Flash as a Magneto-Acoustic Wave Phenomenon

Ove Havnes **13**, 323

Electric Conductivity in the Inhomogeneous Photosphere and Sunspots

M. Kopecký **14**, 136

Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. III: Calculations for Different Spot Models and Arbitrary Depth Dependence of the Magnetic Field Vector

J. Staude **15**, 102

A Magnetostatic Sunspot Model with 'Twisted' Field

Hong Sik Yun **16**, 398

On Magneto-Optical Effects in Sunspots

A. Wittmann **20**, 365

Magnetic Fields in Umbral Atmospheres under 'Similarity' Configuration

Hong Sik Yun **22**, 137

Alfvén Waves in Umbral Flux Tubes

P. R. Wilson **22**, 434

Thermal Conductivity in Solar Magnetoplasmas

Hong Sik Yun and Arne A. Wyller **27**, 44

The Cooling of a Sunspot. I: A Carnot Cycle and the Hydromagnetic Interactions

P. R. Wilson **27**, 354

The Cooling of a Sunspot. II: Convection Zone Models and the Magnetic Power Supply

P. R. Wilson **27**, 363 *Erratum 30*, 280

Can Oscillations Grow in a Sunspot Umbra?

D. J. Mullan and H. S. Yun **30**, 83

- On the Generation of Umbral Flashes and Running Penumbra Waves
R. L. Moore 30, 403
- The Cooling of a Sunspot. III: Recent Observations
P. R. Wilson 32, 435
- Comments on Papers by P. R. Wilson Concerning Sunspots
D. J. Mullan 32, 441
- The Effect of Partial Ionization of a Gas on the Electrical Conductivity, with Reference to Sunspot Umbrae
P. A. Gurbutt 33, 403
- Temporal Variations of the Magnetic Field in Sunspots
R. B. Schultz and O. R. White 35, 309
- The Temperature of Penumbra Filaments
O. Kjeldseth Moe and P. Maltby 36, 101
- Sub- and Superhydrostatic Equilibrium in Sunspots
W. Mattig 36, 275
- The Nature of the Sunspot Phenomenon. II: Internal Overstable Modes
E. N. Parker 37, 127
- The Polarization of Continuum Radiation in Sunspots. I: Rayleigh and Thomson Scattering
G. D. Finn and J. T. Jefferies 39, 91
- The Nature of the Sunspot Phenomenon. III: Energy Consumption and Energy Transport
E. N. Parker 40, 275
- The Nature of the Sunspot Phenomenon. IV: The Intrinsic Instability of the Magnetic Configuration
E. N. Parker 40, 291
- On the Turbulent Decay of Strong Magnetic Fields and the Development of Sunspot Areas
F. Krause and G. Rüdiger 42, 107
- Fine Structure and Evershed Motions in the Sunspot Penumbra
D. J. Galloway 44, 409
- Umbral Boundaries, Convection, and the Depth of Sunspots
Philip A. Isenberg 50, 49
- Intense Magnetic Fields and Umbral Dots
B. Roberts 50, 329
- Heat Flow near Obstacles in the Solar Convection Zone
H. C. Spruit 55, 3
- The Stability of a Magnetic Flux Element in a Horizontally Stratified Compressible Plasma
P. R. Wilson 55, 35
- Waves in the Sunspot Penumbra
H. M. Antia, S. M. Chitre, and M. H. Gokhale 60, 31
- Waves in the Sunspot Umbra
H. M. Antia and S. M. Chitre 63, 67
- A Description of the Sunspot-Twisted Magnetic Field under 'Similarity' Assumption
V. A. Osherovitch 64, 261
- On the Origin of Strong Downdrafts Associated with the Birth of Sunspots
Kazunari Shibata 66, 61
- Alfvén Waves in Sunspots
Alan H. Nye and Joseph V. Hollweg 68, 279
- A Note on Permissible Values of the Vertical Gradient of the Sunspot Magnetic Field
V. A. Osherovitch 68, 297
- On the Need for Space Observations of the Umbra/Photosphere Intensity Ratio
F. Albregtsen and P. Maltby 74, 147
- A New Magneto-Hydrostatic Theory of Sunspots
V. A. Osherovitch 77, 63
- On the Dynamics of the Chromosphere above Sunspots
Yu. D. Zhugzhda and V. I. Makarov 81, 245
- Sunspot Bright Rings and the Thermal Diffusivity of Solar Convection
L. A. Fowler, P. Foukal, and T. Duvall, Jr. 84, 33
- Electrical Conductivity in Sunspots and the Quiet Photosphere
P. Kovitya and L. Cram 84, 45
- Solar Cycle Dynamo Wave Origin of Sunspot Intensity and X-Ray Bright Point Number Variation
Hirokazu Yoshimura 87, 251

- Interpretation of Oscillations in UV Lines Observed above Sunspot Umbrae
J. Staude, Y. D. Žugžda, and V. Locāns **95**, 37
- The Influence of Faculae on Sunspot Heat Blocking
Wei-Hwan Chiang and Peter Foukal **97**, 9
- On the Linear Transformation and Resonant Absorption of Alfvén *p*-Modes in Sunspots
V. I. Zhukov **98**, 39

Sunspots, Umbra

- A Model of the Sunspot Umbra
S. M. Chitre and G. Shaviv **2**, 150
- Convective Instability and Overstability in the Sunspot Umbra
Mamoru Saitō and Shoji Kato **3**, 531
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. II: Some Properties of Umbral Dots
J. M. Beckers and E. H. Schröter **4**, 303
- Sur une particularité de la composante π du triplet normal dans l'ombre d'une tache
J. C. Henoux **4**, 315
- Effect of Progressive Alfvén Waves on the Profiles of Solar Spectral Lines
P. Maltby **5**, 3
- Sunspot Intensities and Their Correction for Scattered Light
F. Kneer and W. Mattig **5**, 42
- The Structure of a Sunspot. IV: A Two-Dimensional Radiative Transfer Analysis of Center-Limb Intensity Profiles
P. R. Wilson **5**, 338
- On the Center-to-Limb Variation of Sunspot Brightness
W. Mattig **6**, 413
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. III: On the Origin of the Apparent π Component in Sunspot Umbrae
J. M. Beckers and E. H. Schröter **7**, 22
- Chromospheric Inhomogeneities in Sunspot Umbrae
Jacques M. Beckers and Paul E. Tallent **7**, 351
- Some Properties of Umbral Flashes
A. Wittmann **7**, 366
- On the Position of Sunspots in the Core of H α Relative to the Continuum
Oddbjørn Engvold **8**, 284
- The Geometrical Height-Scale and the Pressure Equilibrium in the Sunspot Umbra
W. Mattig **8**, 291
- The Mean Temperature Gradient in the Umbra
P. R. Wilson **9**, 391
- On the Properties of Umbral Dots
P. R. Wilson **10**, 404
- On the Dependence of Sunspot Minimum Intensity on Area
M. Rossbach and E. H. Schröter **12**, 95
- A Complete Photoelectric Sunspot Spectrum: an Atlas from 3900 to 8000 Å
H. Wöhl, A. Wittmann, and E. H. Schröter **13**, 104
- On the Continuum Intensity of the Umbra of Large Sunspots
P. Maltby **13**, 312
- The Umbral Flash as a Magneto-Acoustic Wave Phenomenon
Ove Havnes **13**, 323
- High Resolution Solar Images at 10 Microns: Sunspot Detail and Photometry
P. J. Turon and P. J. Léna **14**, 112
- Continuum Windows in Spectra of Umbrae (4000-8000 Å)
H. Wöhl **15**, 338
- On Rotational Temperatures of Umbrae
H. Wöhl **15**, 342
- On Molecules in Sunspots
H. Wöhl **16**, 362

- A New Empirical Model of a Sunspot Umbra
Hong Sik Yun 16, 379
- On the Oscillatory Velocity Field in Sunspot Atmosphere
A. Bhatnagar 18, 40
- Sunspot Intensity Observations during the 9 May 1970 Mercury Transit
P. Maltby and L. Staveland 18, 443
- Observation of Filamentary Structure in Sunspot Umbrae
D. Papathanasoglou 21, 113
- Magnetic Fields in Umbral Atmospheres under 'Similarity' Configuration
Hong Sik Yun 22, 137
- Alfvén Waves in Umbral Flux Tubes
P. R. Wilson 22, 434
- Photoelectric Line Profiles in Umbral Spectra
T. D. Fay, A. A. Wyller, and H. S. Yun 23, 58
- Intensity Oscillation in H α -Fine Structure
Arvind Bhatnagar and Katsuo Tanaka 24, 87
- On the Interpretation of the π -Component Splitting in Sunspot Spectra
V. N. Obridko and L. B. Demkina 24, 336
- On the Minimum Intensity of the Na D₂-5890 Å Line in Sunspot Umbra
T. Fay, J. Remo, and K. Czaja 26, 87
- Thallium in the Solar Atmosphere
D. L. Lambert, E. A. Mallia, and G. Smith 26, 250
- On the Sunspot Structure
V. A. Krat, V. N. Karpinsky, and L. M. Pravdjuk 26, 305
- Oscillatory Motions in Sunspots
J. M. Beckers and R. B. Schultz 27, 61
- Oscillations and Waves in a Sunspot
R. G. Giovanelli 27, 71
- Observations of Sunspot Umbral Velocity Oscillations
Arvind Bhatnagar, W. C. Livingston, and J. W. Harvey 27, 80
- Relative Umbral Intensity of a Large Sunspot
N. Mykland 28, 49
- On Some Characteristics of Umbral Fine Structure
F. Kneer 28, 361
- Width of Emission Cores of the Line K Ca II in Sunspots
R. B. Teplitskaya and S. A. Efendieva 28, 369
- Can Oscillations Grow in a Sunspot Umbra?
D. J. Mullan and H. S. Yun 30, 83
- On the Generation of Umbral Flashes and Running Penumbral Waves
R. L. Moore 30, 403
- A Morphological Study of the Light-Bridges in Sunspots
M. Vazquez 31, 377
- The Effect of Partial Ionization of a Gas on the Electrical Conductivity, with Reference to Sunspot Umbrae
P. A. Gurbutt 33, 403
- The Depth of Sunspots
Th. Prokakis 35, 105
- Temporal Variations of the Magnetic Field in Sunspots
R. B. Schultz and O. R. White 35, 309
- Umbral Intensities of Large Sunspots
G. Ekmann and P. Maltby 35, 317
- Models for Different Sunspot Umbrae
O. Kjeldseth Moe and P. Maltby 36, 109
- Sub- and Superhydrostatic Equilibrium in Sunspots
W. Mattig 36, 275
- The Relation between the Intensities of Umbra and Penumbra of Large Sunspots
G. Ekmann 38, 73

- The Brightening of Sunspot Umbra Observed on 29 October, 1972
Jun Kubota, Tatsuo Tamenaga, Ichiro Kawaguchi, and Reizaburo Kitai **38**, 389
- H α Oscillations in Sunspot Umbrae
Gary L. Phillis **41**, 71
- Umbral Oscillations and Penumbral Waves in H α
R. L. Moore and Frances Tang **41**, 81
- H and K Lines in the Sunspot Umbra: A Source Function and Doppler Width
R. B. Teplitskaya and S. A. Efendieva **43**, 293
- Structure of Sunspots. III: A Minimum-Gradient Model Atmosphere for Umbrae
Cornelis Zwaan **45**, 115
- Characteristics of the Displacement of the Penumbral Bright Grains of Sunspots
R. Muller **48**, 101
- Umbral Boundaries, Convection, and the Depth of Sunspots
Philip A. Isenberg **50**, 49
- Intense Magnetic Fields and Umbral Dots
B. Roberts **50**, 329
- On the Difference in Darkness between Sunspots
P. Maltby **55**, 335
- On Physical Conditions in the Chromosphere above Sunspot Umbrae
R. B. Teplitskaya, S. A. Grigoryeva (Efendieva), and V. G. Skochilov **56**, 293
- Motions in Solar Magnetic Tubes. III: Outward Wave Propagation in Sunspot Umbrae
R. G. Giovanelli, J. W. Harvey, and W. C. Livingston **58**, 347
- Umbral Flares
Frances Tang **60**, 119
- The Fine Structure of Light-Bridges in Sunspots
R. Muller **61**, 297
- Waves in the Sunspot Umbra
H. M. Antia and S. M. Chitre **63**, 67
- A Refined Measurement of the Sunspot Radiative Flux Deficit
R. J. Bray **69**, 3
- OSO-8 Observations of Ca II H and K, Mg II h and k, L α and L β above a Sunspot
F. Kneer, G. Scharmer, W. Mattig, A. Wyller, G. Artzner, P. Lemaire, and J. C. Vial **69**, 289
- Enhanced Emission of Alfvén Waves from Sunspots during Proton Flares
D. J. Mullan **70**, 381
- Umbral Oscillations as Resonant Modes of Magneto-Atmospheric Waves
Mark A. Scheuer and John H. Thomas **71**, 21
- On the Need for Space Observations of the Umbra/Photosphere Intensity Ratio
F. Albrechtsen and P. Maltby **74**, 147
- About the Foreshortening Effect on Sunspot Umbral Dots
A. Adjabshirzadeh and S. Koutchmy **75**, 71
- Umbral Oscillations in a Detailed Model Umbra
John H. Thomas and Mark A. Scheuer **79**, 19
- The Chromosphere above a Sunspot Umbra
H. A. Beebe, W. E. Baggett, and H. S. Yun **79**, 31
- Sunspot Geometry and Pressure Balance
Ronald G. Giovanelli **80**, 21
- Size Variations in Regular Sunspots
R. D. Robinson and D. C. Boice **81**, 25
- On the Dynamics of the Chromosphere above Sunspots
Yu. D. Zhugzhda and V. I. Makarov **81**, 245
- Seismology of Sunspot Atmospheres
Y. D. Žugžda, V. Locāns, and J. Staude **82**, 369
- The Spatial Distribution of Umbral Dots and Granules
J. K. Lawrence **87**, 1
- The Study of Umbral Flashes in the Umbrae of Two Sunspots
I. P. Turova, R. B. Teplitskaya, and G. V. Kuklin **87**, 7

- The Mg II h Line in Sunspot Umbrae
J. B. Gurman 90, 13 *Erratum* 92, 391
- Limb-Darkening and Solar Cycle Variation of Sunspot Intensities
F. Albregtsen, P. B. Jorås, and P. Maltby 90, 17
- On Umbrales Flashes in Different Sunspot Groups
I. P. Turova 91, 51
- On the Temperature Structure of Sunspot Umbrae
A. A. van Ballegooijen 91, 195
- A Model of the Oscillations in the Chromosphere and Transition Region above Sunspot Umbrae
Y. D. Žugžda, J. Staude, and V. Locāns 91, 219
- Broad-Band Circular Polarimetry of Sunspots, 0.4-1.7 Microns: Spatial Scans with a 3.4 Arc Sec Diameter Aperture
Gary D. Henson and James C. Kemp 93, 289
- Umbrales Oscillations Measured in the Stokes-V Inversion Point
H. Balthasar and E. Wiehr 94, 99
- High-Resolution Spectroscopy of Active Regions. I: Observing Procedures
C. Zwaan, J. J. Brants, and L. E. Cram 95, 3
- Interpretation of Oscillations in UV Lines Observed above Sunspot Umbrae
J. Staude, Y. D. Žugžda, and V. Locāns 95, 37
- Sunspots, Velocity**
- High-Resolution Measurements of Photosphere and Sunspot Velocity and Magnetic Fields Using a Narrow-Band Birefringent Filter
J. M. Beckers 3, 258
- Concerning the Origin of Evershed Motion in Sunspots
Martin D. Altschuler, Yoshinari Nakagawa, and Carl G. Lilliequist 3, 466 *Addendum* 4, 264
- The Effect of Magneto-Sonic Waves on a Zeeman Triplet with Application to Sunspots
P. Maltby 4, 96
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. I: Observational Technique, Properties of Magnetic Knots
J. M. Beckers and E. H. Schröter 4, 142
- The Evershed Motion in Sunspots
S. M. Chitre 4, 168
- High-Resolution Photography of the Solar Chromosphere. V: The Fibrils around Isolated Sunspots
R. E. Loughhead 5, 489
- Chromospheric Inhomogeneities in Sunspot Umbrae
Jacques M. Beckers and Paul E. Tallent 7, 351
- A Mechanism for the Build-Up of Flare Energy
Jan Olof Stenflo 8, 115
- Sunspot Motion Statistics for 1965-67
Helen E. Coffey and Peter A. Gilman 9, 423
- The Intensity, Velocity and Magnetic Structure of a Sunspot Region. IV: Properties of a Unipolar Sunspot
J. M. Beckers and E. H. Schröter 10, 384
- Quelques effets de l'interaction des centres actifs solaires
M.-J. Martres 11, 258
- On the Motion of Penumbra Filaments in Sunspots
H. I. Abdussamatov and V. A. Krat 14, 132
- Unusual Rotation of a Sunspot 30 September to 8 October 1969
Richard A. Millèr 16, 373
- On the Magnetic Fields and Motions in Sunspots at Different Atmospheric Levels
H. I. Abdussamatov 16, 384
- Magnetically Non Split Lines in Penumbrae
G. Stellmacher and E. Wiehr 17, 21
- On the Oscillatory Velocity Field in Sunspot Atmosphere
A. Bhatnagar 18, 40
- Two-Dimensional Observations of the Velocity Field in and around Sunspots
N. R. Sheeley, Jr. and A. Bhatnagar 19, 338

- On the Fine Structure of the Evershed Effect
M. Mamadazimov **22**, 129
- Observations of the Horizontal Velocity Field Surrounding Sunspots
N. R. Sheeley, Jr. **25**, 98
- Oscillatory Motions in Sunspots
J. M. Beckers and R. B. Schultz **27**, 61
- Oscillations and Waves in a Sunspot
R. G. Giovanelli **27**, 71
- Observations of Sunspot Umbral Velocity Oscillations
Arvind Bhatnagar, W. C. Livingston, and J. W. Harvey **27**, 80
- The Latitudinal Motion of Sunspots and Solar Meridional Circulations
Fred Ward **30**, 527
- The Oscillatory Velocity Field Observed in a Unipolar Sunspot Region
J. B. Rice and V. Gaizauskas **32**, 421
- Force-Free Magnetic Fields and Flares of August 1972
K. Tanaka and Y. Nakagawa **33**, 187
- Remarks Concerning Ward's 'The Latitudinal Motion of Sunspots and Solar Meridional Circulations'
Jaakko Tuominen **34**, 15
- High-Resolution Photography of the Solar Chromosphere. XIII: H α Contrast Profiles of Sunspot Fibrils
R. J. Bray **38**, 377
- H α Oscillations in Sunspot Umbrae
Gary L. Phillis **41**, 71
- Sunspot Motions, Flares and Type III Bursts in McMath 11482
H. Zirin and B. Lazareff **41**, 425
- The Chromospheric Evershed Flow
P. Maltby **43**, 91
- Fine Structure and Evershed Motions in the Sunspot Penumbra
D. J. Galloway **44**, 409
- Evolution of Fibrils with Special Reference to Flare Activity
Katsuo Tanaka **47**, 247
- Motion of Sunspot Magnetic Fields and Its Relation to Solar Flares
Kunitomo Sakurai **47**, 261
- 22-Year Cycle or 11-Year Cycle in the Latitude Drift of Sunspot Groups?
Jaakko Tuominen **47**, 541
- Characteristics of the Displacement of the Penumbra Bright Grains of Sunspots
R. Muller **48**, 101
- Shapes and Centre-to-Limb Variation of the H and K Lines in Sunspot Umbrae
R. B. Teplitskaya and N. M. Firstova **48**, 103
- The Evershed Flow in the Transition Region Chromosphere-Photosphere
J. Bønes and P. Maltby **57**, 65
- Motions in Solar Magnetic Tubes. III: Outward Wave Propagation in Sunspot Umbrae
R. G. Giovanelli, J. W. Harvey, and W. C. Livingston **58**, 347
- On the Proper Motion of Small Pores in Sunspot Groups
J. P. Mehlretter **63**, 61
- On Mass Flow in a Complex Sunspot
H. I. Abdussamatov **65**, 197
- On the Origin of Strong Downdrafts Associated with the Birth of Sunspots
Kazunari Shibata **66**, 61
- A Sunspot with a Peculiar Motion
M. Waldmeier **66**, 273
- Motions in the Solar Atmosphere Associated with the White Light Flare of 11 July 1978
L. Dezső, Lidia Gesztelyi, L. Kondás, Ágnes Kovács, and S. Rostás **67**, 317
- Preflare Conditions, Changes and Events (*Invited Review Paper*)
Sara F. Martin **68**, 217
- Steady Flows in the Chromosphere and Transition-Zone above Active Regions as Observed by OSO-8
Bruce W. Lites **68**, 327

- On Diurnal Variations of the Solar Rotation Rate as Derived from Sunspot Tracings
A. Koch, H. Wöhl, and E. H. Schröter 71, 395
- On Changes of the Rotation Velocities of Stable, Recurrent Sunspots and Their Interpretation with a Flux Tube Model
Horst Balthasar, Manfred Schüssler, and Hubertus Wöhl 76, 21
- Vector Magnetic Field Evolution, Energy Storage, and Associated Photospheric Velocity Shear within a Flare-Productive Active Region
K. R. Krall, J. B. Smith, Jr., M. J. Hagyard, E. A. West, and N. P. Cummings 79, 59
- An Emission Measure Analysis of Two Sunspots Observed by the UVSP Instrument on the SMM Spacecraft
A. E. Kingston, J. G. Doyle, P. L. Dufton, and J. B. Gurman 81, 47
- High Resolution EUV Structure of the Chromosphere-Corona Transition Region above a Sunspot
K. R. Nicolas, O. Kjeldseth-Moe, J.-D. F. Bartoe, and G. E. Brueckner 81, 253
- On Photospheric and Chromospheric Penumbral Waves
P. S. Cally and J. A. Adam 85, 97
- On the Origin of δ Spots
Frances Tang 89, 43
- On the Correlation of Longitudinal and Latitudinal Motions of Sunspots
Peter A. Gilman and Robert Howard 93, 171
- Morphological Evolution of an Emerging Flux Region
J. J. Brants and J. C. M. Steenbeek 96, 229
- Sunspots, Wave Phenomena** (*see Sunspots*)
- Sunspots, Wilson Effect** (*see Sunspots*)
- Supergranulation**
- Photoelectric Photometry of Solar Granulation in Several Regions of the Continuum
G. Y. Vassiljeva 1, 16
- Some Properties of Velocity Fields in the Solar Photosphere
Franz Ludwig Deubner 2, 133
- Magnetic-Field Accumulation in Supergranules
Alfred Clark, Jr. and H. Kevin Johnson 2, 433
- A Statistical Analysis of Large-Scale Brightness and Velocity Fluctuations in the Solar Atmosphere
I. Appenzeller and E. H. Schröter 4, 131
- On the Difference between the Photometric Inhomogeneities on the Solar Surface in Two Colors
G. Vassilyeva 4, 300
- Chromospheric Magnetic Fields Associated with Supergranulation
Alfred Clark, Jr. 4, 386
- On the Development of Magnetic Fields in Active Regions
M. K. V. Bappu, V. M. Grigorjev, and V. E. Stepanov 4, 409
- Photospheric Brightness Differences Associated with the Solar Supergranulation
Jacques M. Beckers 5, 309
- Power Spectra of H α Doppler Shifts
Ian Elliott 6, 28
- Solar Velocity Fields: 5-Min Oscillations and Supergranulation
Andrew S. Tanenbaum, John M. Wilcox, Edward N. Frazier, and Robert Howard 9, 328
- Ca II Resonance Lines in Non-Homogeneous Chromospheres
Herbert A. Beebe and Hollis R. Johnson 10, 79
- Long Term Observations of the H α Chromospheric Network
T. J. Janssens 11, 222
- Vertical Velocities and Horizontal Wave Propagation in the Solar Photosphere
Steven Musman and David M. Rust 13, 261
- Time and Shape Changes of the Supergranular Network
J. Sýkora 13, 292
- Center-Limb Observations of Inhomogeneities in the Solar Atmosphere. I: The Mg b Lines
C. J. Cannon and P. R. Wilson 14, 29
- Chromospheric Heating above Supergranular Boundaries
Robert W. Milkey 14, 62

Multi-Channel Magnetograph Observations. II: Supergranulation

Edward N. Frazier 14, 89

Production of the Solar Magnetic Fine-Structure by Convection

S. R. Weart 14, 274

Some Properties of Velocity Fields in the Solar Photosphere. III: Oscillatory and Supergranular Motions as a Function of Height

Franz-Ludwig Deubner 17, 6

Center Limb Observations of Inhomogeneities in the Solar Atmosphere. II: The Na D and Na 5688 Doublets and the Mg I 4571 Line

C. J. Cannon and P. R. Wilson 17, 288

K Emission-Line Widths and the Solar Chromosphere

M. K. V. Bappu and K. R. Sivaraman 17, 316

A Comparison between the Helium 10 830 Å and the Hydrogen H α Chromospheres

R. G. Giovanelli, D. N. B. Hall, and J. W. Harvey 22, 53

Some Properties of Velocity Fields in the Solar Photosphere. IV: Long Periods, Five Minute Oscillations, and the Supergranulation at Lower Layers

Franz-Ludwig Deubner 22, 263

Intensity Oscillation in H α -Fine Structure

Arvind Bhatnagar and Katsuo Tanaka 24, 87

Spectral Analyses of Solar Photospheric Fluctuations. III: Bi-Dimensional Power, Coherence and Phase Spectra of Deep-Seated Radial Velocity and Photometric Fluctuations

Frank N. Edmonds, Jr. and Carol J. Webb 25, 44

A Model of the Quiet Solar Atmosphere

J. H. Piddington 27, 402

High Spatial Resolution Photographs of the Sun in L α Radiation

D. K. Prinz 28, 35

Spectral Investigation of the Chromosphere. II: The Nature of the Mottles and a Model of the Overall Structure

Ulrich Grossmann-Doerth and Marina von Uexküll 28, 319

Positions of Filament Feet in Relation to the Supergranular Calcium Network

S. Płoceniak and B. Rompolt 29, 399

Spectroscopic Investigation of the Chromosphere. III: H α Line Profile from the Interior Supergranular Cells

Ulrich Grossmann-Doerth and Marina von Uexküll 30, 71

Magnetic-Field Structure of the Photospheric Network

J. O. Stenflo 32, 41

A Three-Component Concept of the Chromosphere and Transition Region

Peter Foukal 37, 317

Magnetic Pukas and the Lifetime of the Supergranulation

W. C. Livingston and F. Q. Orrall 39, 301

On Convection in the Sun

Yu. V. Vandakurov 40, 3

A Model of the Supergranulation Network and of Active-Region Plages

J. O. Stenflo 42, 79

Spectral Investigation of the Chromosphere. V: Observation and Analysis of H β

U. Grossmann-Doerth and M. v. Uexküll 42, 303

Infrared Observations of Supergranule Temperature Structure

Simon P. Worden 45, 521

The EUV Chromospheric Network in the Quiet Sun

E. M. Reeves 46, 53 *Errata/Replacement Figure: Fig. 10 - 53, 547*

A Study of Supergranulation Using a Diode Array Magnetograph

Simon P. Worden and George W. Simon 46, 73

Comment on Lifetime Determination of Solar Features

L. Golub 46, 115

Some Long-Lived Supergranules

A. Kubičela 47, 551

The Helium 10830 Å Line in the Undisturbed Chromosphere

R. G. Giovanelli and D. Hall 52, 211

A Possible Edge Effect in Enhanced Network

Harrison P. Jones and Douglas R. Brown 52, 337

Spectral Investigation of the Chromosphere. VI: Observations of H α Close to the Limb

U. Grossmann-Doerth and Marina von Uexküll 55, 321

Downflow in the Supergranulation Network and Its Implication for Transition Region Models

G. W. Pneuman and R. A. Kopp 57, 49

Supergranular Line Profile Variation of Mg I λ 2852

Marc S. Allen 60, 265

The Origin of Supergranulation and Giant Cells in the Solar Convective Zone

I. W. Roxburgh and R. K. Tavakol 61, 247

Analysis of the Supergranulation Structure in Coronal Holes

G. Calamai, F. Chiuderi Drago, and G. Pettini 65, 167

The Equatorial Rotation Rate of the Supergranulation Cells

Thomas L. Duvall, Jr. 66, 213

The Supergranule Velocity Field

R. G. Giovanelli 67, 211

On the Large Scale Brightness Fluctuations in the Solar Atmosphere

V. A. Krat, V. I. Makarov, and K. S. Tavastsherna 68, 237

Non-Equilibrium Ionization in the Transition Region Network

Michael H. Francis 69, 239

Granulation and Supergranulation as Convective Modes in the Solar Envelope

H. M. Antia, S. M. Chitre, and S. K. Pandey 70, 67

A Dependence on Solar Cycle on the Size of the Ca⁺ Network

Jagdev Singh and M. K. V. Bappu 71, 161

On the Size and Structure of Bright Solar Ca⁺-Network Cells Depending on the Heliographic Position

Rüdiger Brune and Hubertus Wöhl 75, 75

Overstability of Acoustic Modes and the Solar Five-Minute Oscillations

H. M. Antia, S. M. Chitre, and D. Narasimha 77, 303

Nonlinear Simulations of Solar Rotation Effects in Supergranules

David H. Hathaway 77, 341

The Dynamical Behavior of Facular Points in the Quiet Photosphere

R. Müller 85, 113

An Estimation of the Fluctuations in the Extreme Limb of the Sun

Bruce W. Lites 85, 193

Velocity Fields of Individual Supergranules

G. Küveler 88, 13

A Quantitative Study of Ca II Network Geometry

Nirupama Raghavan 89, 35

On the Interpretation of Fraunhofer Line Doppler Shifts at Supergranule Boundaries

P. Miller, P. Foukal, and S. Keil 92, 33

Observations of Very Low Contrast White Light Solar Structures Utilizing Differential Photometry

E. J. Seykora 99, 39

Surges

A Typical Twisted Surge on November 10, 1967

M. Dizer 4, 99

A Possible Acceleration Mechanism for a Solar Surge

Martin D. Altschuler, Carl G. Lilliequist, and Yoshinari Nakagawa 5, 366

Some Statistical Properties of Surges

Hans Westin 7, 393

On the Connection between N-S and E-W Solar Asymmetries

A. M. Cantù, G. Godoli, and G. Poletto 15, 356

Extreme-Ultraviolet Observations of a Surge

Robert P. Kirshner and Robert W. Noyes 20, 428

Soft Solar X-Rays and Solar Activity. VI: Optical Identification of Activity Associated with X-Ray Background Fluctuations

Richard G. Teske 21, 146

The Magnetic Properties of Solar Surges

J.-René Roy 28, 95

Dynamics and Localization of Surges in the Chromosphere

Yu. V. Platov 28, 477

The Limb Flare of August 11, 1972

M. Waldmeier 30, 129

Possible Mechanism of Surge Formation in the Solar Atmosphere

Yu. V. Platov, B. V. Somov, and S. I. Syrovatskii 30, 139

Some Statistical Properties of Ellerman Bombs

J.-René Roy and H. Leparskas 30, 449

The Dynamics of Solar Surges

J.-René Roy 32, 139

The Possible Role of Energetic Electrons in the Production of Surges

S. W. Kahler 32, 477

Spatial Distribution of Soft X-Ray and EUV Emission Associated with a Chromospheric Flare of Importance 1B on August 2, 1972

W. M. Neupert, R. J. Thomas, and R. D. Chapman 34, 349

The Alfvén-Wave Theory of Solar Flares

J. H. Piddington 38, 465

Magnetic Fields in Flares and Active Prominences. II: The Field Configuration in Some Active Prominences

E. Tandberg-Hanssen and J. McKim Malville 39, 107

Spectral Features to be Expected from Rotational and Expansional Motions in Fine Solar Structures

B. Rompolt 41, 329

Dynamic Response of an Isothermal Static Corona to Finite-Amplitude Disturbances

Y. Nakagawa, S. T. Wu, and E. Tandberg-Hanssen 41, 387

Observations of a Surge Prominence as a Continuum Event

J. René Roy 48, 149

Production of a Short-Lived Filament by a Surge

H. Zirin 50, 399

Prominence Mass Ejections and Their Effects on the Corona. I: The Eruptive Prominence of 21 August 1973 and the Surge of 4 December 1973

J. B. Smith, Jr., D. M. Speich, R. M. Wilson, E. Tandberg-Hanssen, and S. T. Wu 52, 379

Do Surges Heat the Corona?

David M. Rust, David F. Webb, and William MacCombie 54, 53

Hydrodynamic Simulations of Flare/Surge Events

R. S. Steinolfson, E. J. Schmahl, and S. T. Wu 63, 187

A Flare-Associated Mechanism for Solar Surges

Per Carlqvist 63, 353

An Analysis of Type III Burst Occurrence in Spotless Regions

C. Zanelli, P. Zlobec, and U. Koren 65, 387

X-Rays, Filament Activity and Flare Prediction

J. M. Mosher and L. W. Acton 66, 105

Impulsive EUV Bursts Observed in CIV with OSO-8

R. Grant Athay, O. R. White, B. W. Lites, and E. C. Bruner, Jr. 66, 357

The Physical Relationship between Flares and Surges Observed in the Extreme Ultraviolet

E. J. Schmahl 69, 135

The Recurrent Surges in McMath 9760 and Associated Surge Brightenings

Reuven Zach and Varda Bar 73, 331

Numerical Hydrodynamics of the Jet Phenomena in the Solar Atmosphere. II: Surges

Kazunari Shibata, Takara Nishikawa, Reizaburo Kitai, and Yoshinori Suematsu 77, 121

The Relation between the Surges and Solar Radio Emission

I. N. Garczyńska, B. Rompolt, A. O. Benz, C. Slottje, A. Tlamicha, and C. Zanelli 77, 277

The Emerging Magnetic Flux and the Elementary Eruptive Phenomenon

Z. Mouradian, M. J. Martres, and I. Soru-Escut 87, 309

Dynamic Evolution of Recurrent Mass Ejections Observed in H α and C IV Lines

B. Schmieder, P. Mein, M. J. Martres, and E. Tandberg-Hanssen 94, 133

Longitudinal Distribution of the Cool Solar Surges

V. K. Verma 94, 155

Spatial and Temporal Variations of Solar Coronal Loops

S. R. Habbal, R. Ronan, and G. L. Withbroe 98, 323

EUV Observations of Subflares and Surges

George L. Withbroe 99, 145

Transition Region**Solar Abundance Determination from Ultraviolet Emission Lines**

Andrea K. Dupree and Leo Goldberg 1, 229

On the Origin of Spicules in the Chromosphere-Corona Transition Region

Max Kuperus and R. Grant Athay 1, 361

Magnetic Fields and the Temperature Structure of the Chromosphere-Corona Interface

Roger A. Kopp and Max Kuperus 4, 212

The O VI Emission from the Sun

Ben-Zion Kozlovsky and Harold Zirin 5, 50

Interpretation of XUV Spectroheliograms

Harold Zirin 9, 77

Solar XUV Limb Brightening Observations. II: Lines Formed in the Chromospheric-Coronal Transition Region

George L. Withbroe 11, 208

Radio Model of the Transition Layer in Solar Active Regions

Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci 17, 369

A Model of the Chromosphere and Transition Zone. Radio and UV Emission of These Layers

E. E. Dubov 18, 43

Electron Densities Derived from Line Intensity Ratios: Beryllium Isoelectronic Sequence

Richard H. Munro, A. K. Dupree, and George L. Withbroe 19, 347

A Model for the Chromosphere-Corona Transition Region Based on Radio Observations and on Hydrodynamical Conservation Equations

P. Lantos 22, 387

Observed Heights of EUV Lines Formed in the Transition Zone and Corona

George W. Simon and Robert W. Noyes 22, 450

Structure of the Chromosphere-Corona Transition Region

R. L. Moore and P. C. W. Fung 23, 78

EUV Observations of the Chromospheric Network

E. M. Reeves and W. H. Parkinson 24, 113

The Derivation of Temperature Gradient and Electron Density Maps from EUV Spectroheliograms

George L. Withbroe 25, 116

Temperature Structure and Conductive Flux in the Chromosphere-Corona Transition Region

G. Elwert and P. K. Raju 25, 319

Coronal Abundance of Elements and a Model of the Quiet Sun from Radio Observations

Claudio Chiuderi, Franca Chiuderi Drago, and Giancarlo Noci 26, 343

Solar Rotation as Determined from OSO-4 EUV Spectroheliograms

A. K. Dupree and W. Henze, Jr. 27, 271

Energy Balance in the Chromosphere-Corona Transition Region

Roger A. Kopp 27, 373

A Model for the Polar Transition Layer and Corona for November 1967

George L. Withbroe and Yi-Ming Wang 27, 394

Extreme Ultraviolet Emission from Chromospheric Inhomogeneities. An Analysis of the Extreme Ultraviolet**Flash Spectrum of the Sun**

G. E. Brueckner and K. R. Nicolas 29, 301

Distribution of Temperature and Emission Measure in a Steadily Heated Solar Atmosphere

O. P. Shmeleva and S. I. Syrovatskii 33, 341

A Dynamical Model for the Chromosphere-Corona Transition Region

Claudio Chiuderi and Iacopo Riani 34, 113

A Three-Component Concept of the Chromosphere and Transition Region

Peter Foukal 37, 317

- Observed Heights of EUV Lines Formed in the Transition Zone and Corona. II: NRL Rocket Observations
George W. Simon, Paul H. Seagraves, R. Tousey, J. D. Purcell, and Robert W. Noyes 39, 121
- Coronal Information from EUV Disk Spectral Line Intensities
D. E. Billings and Manuel Alvarez 40, 23
- The Geometry of the Chromosphere-Corona Transition Region Inferred from the Center-to-Limb Variation of the Radio Emission
M. Kanno and R. Tanaka 43, 63
- Analysis of EUV Limb-Brightening Observations from ATM. I: Model for the Transition Layer and the Corona
John T. Mariska and George L. Withbroe 44, 55
- Heat Transfer in the Corona and Transition Region
R. G. Giovanelli 44, 315
- Analysis of EUV-Limb Brightening Observations from ATM. II: Influence of Spicules
George L. Withbroe and John T. Mariska 48, 21
- Heating of the Solar Transition Zone and Corona
D. Vanbeveren and C. De Loore 50, 99
- The Prominence-Corona Interface Compared with the Chromosphere-Corona Transition Region
Frank Q. Orrall and Edward J. Schmahl 50, 365
- Radio and EUV Observations of a Coronal Hole
G. A. Dulk, K. V. Sheridan, S. F. Smerd, and G. L. Withbroe 52, 349
- Medium Resolution EUV Observations and Network Structure
Nirupama Raghavan 54, 363
- Dynamical Implications of Si IV Line Profiles from OSO-8 Observations
Donald E. Billings, Robert Roussel-Dupré, and Michael H. Francis 55, 287
- Downflow in the Supergranulation Network and Its Implication for Transition Region Models
G. W. Pneuman and R. A. Kopp 57, 49
- Area Variation with Temperature of Supergranule Network Features in the Solar Transition Zone
Edward J. Eadon and Donald E. Billings 58, 31
- Further Evidence for Downflow in the Solar Atmosphere
A. Greve 58, 287
- Brightness Fluctuations of Solar Ultraviolet Line Intensities during a Shock-Wave Passage
Giannina Poletto 61, 389
- Temperature Distribution in the Transition Region and Inner Corona
Badré Alam, S. M. Razauallah Ansari, and Abdul Qaiyum 62, 93 Errata 67, 207
- Non-Thermal Effects Associated with Steep Temperature Gradients in the Transition Zone
D. S. Spicer 62, 269
- EUV and Radio Spectrum of Coronal Holes
Franca Chiuderi Drago 65, 237
- Densities and Mass Motions in Transition-Zone Plasmas in Solar Flares Observed from Skylab
Chung-Chieh Cheng 65, 283
- The Coronal and Transition Region Temperature Structure of a Solar Active Region
Randolph H. Levine and J. P. Pye 66, 39
- Non-Maxwellian Velocity Distribution Functions Associated with Steep Temperature Gradients in the Solar Transition Region. I: Estimate of the Electron Velocity Distribution Functions
Robert Roussel-Dupré 68, 243
- Non-Maxwellian Velocity Distribution Functions Associated with Steep Temperature Gradients in the Solar Transition Region. II: The Effect of Non-Maxwellian Electron Distribution Functions on Ionization Equilibrium Calculations for Carbon, Nitrogen and Oxygen
Robert Roussel-Dupré 68, 265
- Non-Equilibrium Ionization in the Transition Region Network
Michael H. Francis 69, 239
- Models of the Open Solar Atmosphere
M. A. Wragg and E. R. Priest 69, 257
- Transition-Zone Observations of Rapid Flare Events as Observed by OSO-8
Bruce W. Lites 71, 329
- Role of Plasma Flow in Determining Structure of the Chromosphere-Corona Transition Zone of the Sun
W. M. Glencross 73, 67

Mass Motions in the Transition Region

Giannina Poletto 73, 233

Intensity of Lines from Low Lying Levels in C II, N III, O IV, Mg VIII, Si X, and Si II

Suresh Chandra 75, 133

Evidence of Redshifts in the Average Solar Line Profiles of C IV and Si IV from OSO-8 Observations

D. Roussel-Dupré and R. A. Shine 77, 329

Structure and Physics of Solar Faculae. I: The Non-Thermal Velocity Field above Faculae

Z. Mouradian, S. Dumont, J.-C. Pecker, E. Chipman, G. E. Artzner, and J. C. Vial 78, 83

Structure and Physics of Solar Faculae. III: The Densities in the Chromosphere-Corona Transition Zone

S. Dumont, Z. Mouradian, J.-C. Pecker, J.-C. Vial, and E. Chipman 83, 27

Origin of the Weakening of EUV Emission Lines Formed in the Chromosphere-Corona Transition Zone

Takara Nishikawa 85, 65

Behavior of Transition-Region Lines during Impulsive Solar Flares

E. Tandberg-Hanssen, E. Reichmann, and B. Woodgate 86, 159

The Effect of a Non-Maxwellian Electron Velocity Distribution on Be-Like Ion Diagnostics in the Sun

F. P. Keenan 91, 27

A Heating Model for the Transition Zone and Inner Corona

Li Xiao Qing, Zhenda Zhang, and Zhang Youyi 91, 289

Wavelength-Dependence of EUV Continuum Absorption

Takara Nishikawa 93, 37

The Chromosphere and Transition Region - Current Status and Future Directions of Models*(Invited Review Paper)*

R. Grant Athay 100, 257

Transition Region, Models (*see Transition Region*)**Transition Region, Stellar (*see Stellar Physics*)****Transits of Planets****Transits of Mercury and the Sizes of Small Solar Features**

Charles L. Hyder 6, 482

Mercury crossing Sun's disc on 9 May 1970, taken by V. Croce at the solar tower at the Osservatorio

Astronomico de Roma.

M. Cimino 13, 2

The Mercury transit observed before the first contact on May 9, 1970.

Oslo Solar Observatory 15, 2

The Effect of Scattered Light on Solar Intensity Observations as Derived from 9 May, 1970 Mercury Transit

P. Maltby 18, 3

Observations of Stray-Light and Sunspot Intensities during the Mercury Transit of 1970 May 9

W. Mattig 18, 434

Sunspot Intensity Observations during the 9 May 1970 Mercury Transit

P. Maltby and L. Staveland 18, 443

Observation of Filamentary Structure in Sunspot Umbrae

D. Papathanasoglou 21, 113

Correction of Solar Observations for Stray Light by Numerical Integration, with Application to Mercury's Drop

Rolf Brahde 26, 318

Scattered Light - a Comparison between Theory and Experiments during the 1973 Transit of Mercury

A. Wittmann and H. Wöhl 44, 231

Turbulence**A Systematic Method for the Analysis of High-Resolution Fraunhofer Line Profiles**

C. de Jager and L. Neven 1, 27

Generation of Acoustic and Gravity Waves by Turbulence in an Isothermal Stratified Atmosphere

Robert F. Stein 2, 385

A Study of Weak Molecular and Atomic Lines in the Photospheric Spectrum

E. A. Mallia 5, 281

The Interpretation of Velocity Filtergrams. II: The Velocity and Intensity Field of the Central Solar Disk

J. M. Beckers and R. L. Parnell 9, 39

On the Spectrum of Granular and Intergranular Regions

R. Howard and A. Bhatnagar 10, 245

The Maintenance of Solar Differential Rotation by Two-Dimensional Turbulence. A Numerical Model

George H. Nickel 10, 472

On the Frequency Dependence of Acoustic Emission by Isotropic Turbulence

Robert W. Milkey 14, 77

Determination of Solar Doppler Widths by Goldberg's Method

A. R. Dunn and E. C. Olson 16, 272

On the Center to Limb Variation of the Separation of the Mg II, H₂ and K₂ Emission Peaks

A. Greve 16, 328

The Use of the Goldberg-Unno Method for the Investigation of Small-Scale Photosphere Motions

E. Gurtovenko and V. Troyan 20, 264

A Measurement of the Non-Thermal Velocity in the Low Chromosphere

Richard C. Canfield 20, 275

On the Applicability of Goldberg and Unno's Method to the Determination of Microturbulent Velocities in an Atmosphere with Convection

C. de Jager and L. Neven 22, 49

Turbulent Velocity in Undisturbed and Active Photosphere

O. G. Badalyan and M. A. Livshits 22, 297

Micro- and Macroturbulent Motions and the Velocity Spectrum of the Solar Photosphere

C. de Jager 25, 71

The Empirical Determination of Line Source Functions, β_L -Values, and the Microturbulent and Convective Velocity Components as Functions of Depth in the Photosphere-Chromosphere Transition Region

C. de Jager and L. Neven 25, 277

The Formation of Mg I 4571 Å in the Solar Atmosphere. II: The Effect of One-Dimensional Macroscopic Velocity Fields

Richard C. Altrock and C. J. Cannon 29, 275 Erratum 31, 524

Solar X-Ray Spectra Observed from the 'Intercosmos-4' Satellite and the 'Vertical-2' Rocket

Yu. I. Grineva, V. I. Karev, V. V. Korneev, V. V. Krutov, S. L. Mandelstam, L. A. Vainstein, B. N. Vasilyev, and I. A. Zhitnik 29, 441

Microturbulence and the Effect of Departures from LTE on Photospheric Iron Lines

H. Holweger 30, 35

The Solar Neutral Iron Spectrum. II: Profile Synthesis of Representative Fe I Fraunhofer Lines

Bruce W. Lites 32, 283

Note on the Response of an Atmosphere to a Localized Turbulent Source

Janine Provost 33, 103

The Influence of a Photospheric Spectrum of Turbulence on the Profiles of Weak Fraunhofer Lines

Cornelis de Jager 34, 91

Temperature Variations in the Solar Photosphere. II: A Search for Equator-to-Pole Differences in Photospheric Temperature

R. Falciani, M. Rigutti, and G. Roberti 35, 277

On the Determination of the Photospheric Velocity Distribution from Profiles of Weak Fraunhofer Lines

R. J. Rutten, P. Hoyng, and C. de Jager 38, 321

The Hydrogen Balmer Lines and the Structure of the Quiet Solar Chromosphere. I: Observations at the Limb

Pierre Mein and Nicole Mein 40, 317

On the Turbulent Decay of Strong Magnetic Fields and the Development of Sunspot Areas

F. Krause and G. Rüdiger 42, 107

The Total Photospheric Motion Field

E. A. Gurtovenko 45, 25

The Ability of Current Micro-Velocity Models to Represent Center-Limb Line Profiles

J. C. Evans and L. Testerman 45, 41

Temperature Variations in the Solar Photosphere. III: Kitt Peak Measurements of the Variations of Photospheric Line Profiles with the Heliographic Latitude

B. Caccin, R. Falciani, and A. Donati-Falchi 46, 29

Applications of Fourier Analysis to Broadening of Stellar Line Profiles. V: Effects of Finite Sized Eddies on Solar Lines

Myron A. Smith and H. Frisch 47, 461

- Quelques résultats d'observation des spicules chromosphériques en K et D3
Z. Mouradian et I. Soru-Escout 50, 69
- Temperature et microturbulence dans les régions externes des protubérances
Z. Mouradian et J. L. Leroy 51, 103
- Two-Dimensional Stochastic Motions and the Problem of Differential Rotation
Günther Rüdiger 51, 257
- Outward Transport of Angular Momentum by Gas Convection and the Equatorial Acceleration of the Sun
E. M. Drobyshovski 51, 473
- Gas Entry into Non-Spot Magnetic Tubes
R. G. Giovanelli 52, 315
- Improved Values for the Solar Micro- and Macro-Turbulent Filter Functions
Cornelis de Jager and Jan Vermue 54, 313
- Variation of the Profiles of Medium-Strong Photospheric Lines with Heliographic Latitude
B. Caccin, R. Falciani, and A. Donati Falchi 57, 13
- Turbulence in Stellar Atmospheres (*Invited Review Paper*)
David F. Gray 59, 193
- Comments on 'Outward Transport on Angular Momentum...' by E. M. Drobyshovski
Günther Rüdiger 59, 237
- On the Microturbulence in the Solar Photosphere
R. I. Kostik and T. V. Orlova 62, 89
- On Asymmetries of Solar Spectral Lines
Claude Barambon and Edith A. Müller 64, 201
- Turbulence in Fast-Mode Shocks as a Triggering Mechanism in a Solar Flare
Wim J. Weber 69, 119
- Velocity Fields in Quiescent Prominences
Eberhart Jensen 77, 109
- Damping Constant and Turbulence in the Solar Atmosphere
R. I. Kostik 78, 39
- Structure and Physics of Solar Faculae. I: The Non-Thermal Velocity Field above Faculae
Z. Mouradian, S. Dumont, J.-C. Pecker, E. Chipman, G. E. Artzner, and J. C. Vial 78, 83
- Numerical Simulation of the Weak Turbulence Excited by a Beam of Electrons in the Interplanetary Plasma
R. J.-M. Grogard 81, 173
- Alfvén Waves and Turbulence in Quiescent Prominences
Eberhart Jensen 89, 275
- The Solar O I $\lambda 7773$ Triplet. II: Analysis Using Line Inversion Techniques
A. Kavetsky and B. J. O'Mara 96, 1
- Turbulence, Macro (*see Turbulence*)**
- Turbulence, Micro (*see Turbulence*)**
- Velocity Fields**
- A Rossby-Wave Dynamo for the Sun, I
Peter A. Gilman 8, 316
- Interferometric Investigation of the Red and Green Lines during the Total Eclipse of May 30, 1965
A. B. Delone and E. A. Makarova 9, 116
- On Large-Scale Solar Convection
Robert P. Davies-Jones and Peter A. Gilman 12, 3
- Spectroscopic Determinations of Solar Rotation
Robert Howard and J. Harvey 12, 23
- Some Observed Characteristics of Solar Radar Echoes and Their Implications
Jesse C. James 12, 143
- Differential Rotation Caused by Anisotropic Turbulent Viscosity
H. Köhler 13, 3
- The Large-Scale Velocity Fields of the Solar Atmosphere
Robert Howard 16, 21
- On the Magnetic Fields and Motions in Sunspots at Different Atmospheric Levels
H. I. Abdussamatov 16, 384

- Complexes of Activity of the Solar Cycle and Very Large Scale Convection
Hirokazu Yoshimura **18**, 417
- A Method for Constructing Streamlines for the Sun's Large Scale Flow from Doppler Velocities
Peter A. Gilman **19**, 40
- Test of a Solar Streamline Analysis on Terrestrial Wind Data
Hans J. E. Fischer **20**, 26
- Large-Scale Motions in the Sun
J. H. Piddington **21**, 4
- Interferometric Studies of Spectral Lines in the Solar Corona
Joseph G. Hirschberg, Alain Wouters, and Lyman Hazelton, Jr. **21**, 448
- Photography of the Eclipse of 7 March, 1970 from Two Locations
S. A. Korff and R. B. Mendell **21**, 482
- The Latitudinal Motion of Sunspots and Solar Meridional Circulations
Fred Ward **30**, 527
- On the Characteristics of the Basic Framework of Solar Active Regions and the Magnetohydrodynamical Structure of the Convection Zone
Hirokazu Yoshimura **33**, 131
- On Differential Rotation
H. Köhler **34**, 11
- Remarks Concerning Ward's 'The Latitudinal Motion of Sunspots and Solar Meridional Circulations'
Jaakko Tuominen **34**, 15
- Response to a Bounded Atmosphere to a Non-Resonant Excitation. I: Isothermal Case
Janine Provost **40**, 257
- Observed Coronal Temperatures at $1.37 R_{\odot}$ in the Region of a Helmet Structure
D. H. Liebenberg, R. J. Bessey, and B. Watson **40**, 387
- Heights of Formation of Non-Magnetic Solar Lines Suitable for Velocity Studies
Richard C. Altrock, Laurence J. November, George W. Simon, Robert W. Milkey, and Simon P. Worden **43**, 33
- Line Profile Analysis of a Coronal Formation Observed near a Quiescent Prominence: Intensities, Temperatures and Velocity Fields
Tokio Tsubaki **43**, 147
- Coronal Emission Line Profile Observations at Total Solar Eclipses. I: Airborne Instrumentation and Results
D. H. Liebenberg **44**, 331
- Interferometric Investigation of the Line of Sight Velocities in $\lambda 5303$ during the Eclipse of 11 September, 1968
A. B. Delone and E. A. Makarova **45**, 157 *Corrigendum 45*, 550
- Large Scale Circulation in the Convection Zone and Solar Differential Rotation
G. Belvedere and L. Paternò **47**, 525
- Differential Rotation and Giant Cell Circulation of Solar Ca^+ -Network
E. H. Schröter and H. Wöhl **49**, 19
- Photometric Study of Chromospheric and Coronal Spikes Observed during the Total Solar Eclipse of 30 June, 1973
S. Koutchmy and G. Stellmacher **49**, 253
- A Possible Example of Giant Convective Cells Delineated by Magnetic Fields
W. J. Wagner and L. B. Gilliam **50**, 265
- Periodic Oscillations Found in Coronal Velocity Fields
Tokio Tsubaki **51**, 121
- Some Results of the Photospheric Large-Scale Velocity Research from Belgrade Observations
A. Kubičela and M. Karabin **52**, 199
- Apparent Yearly Precession of the Sun
A. Kubičela and M. Karabin **54**, 505
- An Observational Search for Large-Scale Organization of Five-Minute Oscillations on the Sun
Phil H. Dittmer, Philip H. Scherrer, and John M. Wilcox **57**, 3
- Downflow in the Supergranulation Network and Its Implication for Transition Region Models
G. W. Pneuman and R. A. Kopp **57**, 49
- Further Evidence for Downflow in the Solar Atmosphere
A. Greve **58**, 287

X-Ray Analysis of a Polar Plume

Imad A. Ahmad and David F. Webb 58, 323

An Attempt to Compare the Differential Rotation of Ca^+ -Network with that of the Photospheric Plasma

E. H. Schröter, H. Wöhl, D. Soltan, and M. Vázquez 60, 181

Momentum and Energy Transport in the Sun's Convection Zone under the Observational Constraint of Flux and Temperature Homogeneity at the Surface

Gaetano Belvedere and Lucio Paternò 60, 203

The Origin of Supergranulation and Giant Cells in the Solar Convective Zone

I. W. Roxburgh and R. K. Tavakol 61, 247

Large-Scale Solar Velocity Fields

Thomas L. Duvall, Jr. 63, 3

Echelle Observations of C III $\lambda 1909$ and Si III $\lambda 1892$

Marc S. Allen 64, 71

Siphon Flows in Coronal Loops. I: Adiabatic Flow

P. J. Cargill and E. R. Priest 65, 251

Stability of a Steady Vertical Flow in a Viscous Fluid

H. M. Antia and S. M. Chitre 66, 71

Impulsive EUV Bursts Observed in CIV with OSO-8

R. Grant Athay, O. R. White, B. W. Lites, and E. C. Bruner, Jr. 66, 357

Some Comments on the Limb Shift of Solar Lines. III: Variation of Limb Shift with Solar Latitude, across Plages, and across Supergranules

Jacques M. Beckers and William R. Taylor 68, 41

O VI ($\lambda = 1032 \text{ \AA}$) Profiles in and above an Active Region Prominence, Compared to Quiet Sun Center and Limb Profiles

J. C. Vial, P. Lemaire, G. Artzner, and P. Gouttebroze 68, 187

A Semi-Analytical Approach to Time-Dependent Coronal Expansion

Roger A. Kopp 68, 307

Steady Flows in the Chromosphere and Transition-Zone above Active Regions as Observed by OSO-8

Bruce W. Lites 68, 327

Siphon Flows in the Solar Corona

G. Noci 69, 63

Non-Equilibrium Ionization in the Transition Region Network

Michael H. Francis 69, 239

Photospheric Subrotation, Differential Rotation and Zonal Wind Bands: A Reverse Pirouette

K. H. Schatten, H. G. Mayr, and Randolph H. Levine 71, 169

Mass Motions in the Transition Region

Giannina Poletto 73, 233

Surface Magnetic Fields during the Solar Activity Cycle

Robert Howard and Barry J. LaBonte 74, 131

Torsional Waves on the Sun and the Activity Cycle

B. J. LaBonte and R. Howard 75, 161

Coronal Holes: Mass Loss Driven by Magnetic Reconnection

D. J. Mullan and I. A. Ahmad 75, 347

Evidence of Redshifts in the Average Solar Line Profiles of C IV and Si IV from OSO-8 Observations

D. Roussel-Dupré and R. A. Shine 77, 329

Nonlinear Simulations of Solar Rotation Effects in Supergranules

David H. Hathaway 77, 341

Structure and Physics of Solar Faculae. I: The Non-Thermal Velocity Field above Faculae

Z. Mouradian, S. Dumont, J.-C. Pecker, E. Chipman, G. E. Artzner, and J. C. Vial 78, 83

Evidence for a Poleward Meridional Flow on the Sun

Ken Topka, Ron Moore, Barry J. LaBonte, and Robert Howard 79, 231

Solar Rotation Measurements at Mount Wilson. III: Meridional Flow and Limbshift

Barry J. LaBonte and Robert Howard 80, 361

Are the High-Latitude Torsional Oscillations of the Sun Real?

Barry J. LaBonte and Robert Howard 80, 373

- Line Profile Analysis of an Active Region Corona Observed Successively at the East and West Limb
Tokio Tsubaki **87**, 57
- Flow in Coronal Loops with a Mass Source
Giancarlo Noci and Francesca Zuccarello **88**, 193
- The Concentration of the Large-Scale Solar Magnetic Field by a Meridional Surface Flow
C. R. DeVore, N. R. Sheeley, Jr., and J. P. Boris **92**, 1
- Solar Irradiance Changes Caused by *g*-Modes and Large-Scale Convection
Charles L. Wolff **93**, 1
- Separation of Large-Scale Photospheric Doppler Patterns
Herschel B. Snodgrass **94**, 13
- Limb Effect of Solar Absorption Lines. Observational Method and Results for Fe I 557.6 nm
B. N. Andersen **94**, 49
- The Kinematic Processes in Solar Prominences and Flares and Their Spectral Features
Ye Shi-Hui and Jin Jie-Hai **96**, 113
- Analysis of Loop Flows Observed on 27 March, 1980 by the UVSP Instrument during the Solar Maximum Mission
R. A. Kopp, G. Poletto, G. Noci, and M. Bruner **98**, 91
- On the Accuracy of Line-of-Sight Velocity Measurements Using Telluric Lines as Reference Lines
N. I. Kobanov **99**, 21
- Solar Convection (*Invited Review Paper*)
Åke Nordlund **100**, 209
- Velocity Fields, Chromosphere**
- On the Motions of Chromospheric Fine-Structure in a Weak Plage
J. B. Zirker **1**, 204
- The Velocity Field Surrounding Sunspots, as Derived from Observations of H α
E. Haugen **2**, 227
- Further Comments on the SPO Problem
W. C. Livingston **3**, 448
- A Statistical Analysis of Large-Scale Brightness and Velocity Fluctuations in the Solar Atmosphere
I. Appenzeller and E. H. Schröter **4**, 131
- Spectral Observations of Spicules at Two Heights in the Solar Chromosphere
Jay M. Pasachoff, Robert W. Noyes, and Jacques M. Beckers **5**, 131
- Power Spectra of H α Doppler Shifts
Ian Elliott **6**, 28
- Non-Divergent Oscillations in the Solar Atmosphere
Walter L. Jones **7**, 204
- On the Chromospheric Velocity Field in Sunspot Regions
E. Haugen **9**, 88
- Solar Velocity Fields: 5-Min Oscillations and Supergranulation
Andrew S. Tanenbaum, John M. Wilcox, Edward N. Frazier, and Robert Howard **9**, 328
- Some Properties of Velocity Fields in the Solar Photosphere. II: The Spatial Distribution of the Oscillatory Field
Franz-Ludwig Deubner **9**, 343
- On Small-Scale Motions in the Photosphere and Chromosphere of the Sun
H. I. Abdusamatov and V. A. Krat **11**, 29
- Emission Cores in H and K Lines. V: Asymmetries in K₂ and K₃
R. Grant Athay **11**, 347
- Fine Structure in Ca II on the Solar Disc
Jay M. Pasachoff **12**, 202
- Thermally Driven Motions in a Gravitational Atmosphere
R. J. Bessey and M. Kuperus **12**, 216
- Center-Limb Observations of Inhomogeneities in the Solar Atmosphere. I: The Mg b Lines
C. J. Cannon and P. R. Wilson **14**, 29
- The Horizontal Component of Spicule Motion
Spencer R. Weart **14**, 310
- Mass Motion in the Solar Chromosphere
R. A. Jones and W. A. Rense **15**, 317

- Center Limb Observations of Inhomogeneities in the Solar Atmosphere. II: The Na D and Na 5688 Doublets and the Mg I 4571 Line
C. J. Cannon and P. R. Wilson 17, 288
- K Emission-Line Widths and the Solar Chromosphere
M. K. V. Bappu and K. R. Sivaraman 17, 316
- A Method of Differential Field Photometry by Video-Photographic Image Subtraction
R. R. Fisher and R. C. Hill II 18, 211
- Oscillations of Visible Chromosphere Boundary and Regularity in Position of Spicule Groups along the Limb
Jury V. Platov and Nataly S. Shilova 19, 52
- Spectral Investigation of Chromospheric Fine Structure
Ulrich Grossmann-Doerth and Marina von Uexküll 20, 31
- On the Structure of Solar Faculae
V. A. Krat and M. N. Stojanova 20, 57
- A Measurement of the Non-Thermal Velocity in the Low Chromosphere
Richard C. Canfield 20, 275
- The Effect of Two-Dimensional Macroscopic Velocity Fields on Models of the Lower Solar Chromosphere
C. J. Cannon 21, 82
- Turbulent Velocity in Undisturbed and Active Photosphere
O. G. Badalyan and M. A. Livshits 22, 297
- Multi-Component Models for the Formation of the Chromospheric Ca II K Line. II: The Effect of Velocity Fields
L. E. Cram 22, 375
- Velocity Oscillations in the Solar Atmosphere
J. C. Bhattacharyya 24, 274
- High-Resolution Photography of the Solar Chromosphere. X: Physical Parameters of H α Mottles
R. J. Bray 29, 317
- Some Comments on the Photographic Subtraction Method of Determining Chromospheric Velocities
R. J. Bray 30, 335
- High-Resolution Photography of the Solar Chromosphere. XII: An Attempt to Measure Vertical Velocities of H α Bright Mottles Beyond the Limb
R. E. Loughhead 35, 55
- The Galloping Chromosphere
C. Sawyer 35, 63
- Properties of the Solar Ca II K-Line at High Spatial Resolution
U. Grossman-Doerth, F. Kneer, and M. v. Uexküll 37, 85
- Detection of Small Scale Structure in Metal Lines at the Extreme Solar Limb
W. C. Livingston and O. R. White 39, 289
- The Hydrogen Balmer Lines and the Structure of the Quiet Solar Chromosphere. I: Observations at the Limb
Pierre Mein and Nicole Mein 40, 317
- Acoustic Waves and the Geometric Scale in the Solar Atmosphere
Franz-Ludwig Deubner 40, 333
- Differential Rotation, Meridional and Random Motions of the Solar Ca⁺ Network
E. H. Schröter and H. Wöhl 42, 3
- Wave Systems in the Chromosphere
R. Giovanelli 44, 299
- Velocity Waves in the Quiet Solar Chromosphere
Nicole Mein and Pierre Mein 49, 231
- The Height Variation of Granular and Oscillatory Velocities
Richard C. Canfield 50, 239
- A Measurement of the Helium D₃ Profile with a Birefringent Filter
Barry J. LaBonte 53, 369
- Chromospheric Oscillations Observed in the Line C II λ 1336 with OSO-8
Eric G. Chipman 55, 277
- Motions in Solar Magnetic Tubes. I: The Downflow
R. G. Giovanelli and C. Slaughter 57, 255

Properties of the Solar Chromosphere H α Spicules as Observed Spectrally

V. I. Kulidzanishvili and G. M. Nikolsky 59, 21

Motions in Solar Magnetic Tubes. II: The Oscillations

R. G. Giovanelli, W. C. Livingston, and J. W. Harvey 59, 49

Dynamics of H α Spicules According to Spectral Observations at Various Heights of the Solar Chromosphere

V. I. Kulidzanishvili 66, 251

Steady Flows in the Chromosphere and Transition-Zone above Active Regions as Observed by OSO-8

Bruce W. Lites 68, 327

High Resolution Spectroscopy of the Disk Chromosphere. VII: Oscillations in Plage and Quiet Sun Regions

D. T. Woods and L. E. Cram 69, 233

On the Mass Motions and the Atmospheric States of Moustaches

Reizaburo Kitai 87, 135

Velocity Fields of Individual Supergranules

G. Küveler 88, 13

Velocity Fields, Corona (see Velocity Fields)

Velocity Fields, General Circulation (see Velocity Fields)

Velocity Fields, Interior (see Velocity Fields)

Velocity Fields, Large Scale (see Velocity Fields)

Velocity Fields, Oscillations (see Oscillations, Velocity)

Velocity Fields, Photosphere

Amplitude Distributions of Solar Photospheric Fluctuations

Frank N. Edmonds, Jr. 1, 5

Velocity Fields in the Solar Atmosphere

Robert Howard 2, 3

Some Properties of Velocity Fields in the Solar Photosphere

Franz Ludwig Deubner 2, 133

High-Resolution Measurements of Photosphere and Sunspot Velocity and Magnetic Fields Using a Narrow-Band Birefringent Filter

J. M. Beckers 3, 258

Some Observations Bearing on the Problem of the Short-Period Oscillations

Robert Howard and William C. Livingston 3, 434

On the Influence of Seeing on Photospheric Velocity Measurements

Franz Ludwig Deubner 3, 439

Further Comments on the SPO Problem

W. C. Livingston 3, 448

Absolute Wavelengths of Fraunhofer Lines: Convective Motions in the Solar Photosphere and the Gravitational Red Shift

D. L. Lambert and E. A. Mallia 3, 499

A Statistical Analysis of Large-Scale Brightness and Velocity Fluctuations in the Solar Atmosphere

I. Appenzeller and E. H. Schröter 4, 131

On the Relation between the Photospheric Intensity, Velocity and Magnetic Fields

J. M. Beckers and E. H. Schröter 4, 165

A New Method of Magnetograph Observation of the Photospheric Brightness, Velocity, and Magnetic Fields

Robert Howard, Andrew S. Tanenbaum, and John M. Wilcox 4, 286

On the Occurrence of Convective Motions in the Upper Photosphere

C. de Jager and L. Neven 4, 379

Magnetic Knots near a Sunspot

V. M. Grigorjev 6, 67

The Interpretation of Velocity Filtergrams. II: The Velocity and Intensity Field of the Central Solar Disk

J. M. Beckers and R. L. Parnell 9, 39

Solar Velocity Fields: 5-Min Oscillations and Supergranulation

Andrew S. Tanenbaum, John M. Wilcox, Edward N. Frazier, and Robert Howard 9, 328

Some Properties of Velocity Fields in the Solar Photosphere. II: The Spatial Distribution of the Oscillatory Field

Franz-Ludwig Deubner 9, 343

- Studies of Granular Velocities. I: Granular Doppler Shifts and Convective Motion
W. Mattig, J. P. Mehlretter, and A. Nesis **10**, 254
- Short Period Oscillations and Doppler Velocity Gradients
J. W. Harvey **11**, 26
- On Small-Scale Motions in the Photosphere and Chromosphere of the Sun
H. I. Abdusamatov and V. A. Krat **11**, 29
- Vertical Velocities and Horizontal Wave Propagation in the Solar Photosphere
Steven Musman and David M. Rust **13**, 261
- Multi-Channel Magnetograph Observations. II: Supergranulation
Edward N. Frazier **14**, 89
- The Interpretation of Velocity Filtergrams. III: Velocities Inside Solar Granules
J. M. Beckers and R. A. Morrison **14**, 280
- On the Velocity Field Distribution in the Solar Photosphere
A. A. Kalinjak and G. J. Vassilyeva **16**, 37
- Studies of Granular Velocities. II: Statistical Analysis of Two High-Resolution Spectrograms
J. P. Mehlretter **16**, 253 *Corrigendum* 18, 510
- Determination of Solar Doppler Widths by Goldberg's Method
A. R. Dunn and E. C. Olson **16**, 272
- Some Properties of Velocity Fields in the Solar Photosphere. III: Oscillatory and Supergranular Motions as a Function of Height
Franz-Ludwig Deubner **17**, 6
- Center Limb Observations of Inhomogeneities in the Solar Atmosphere. II: The Na D and Na 5688 Doublets and the Mg I 4571 Line
C. J. Cannon and P. R. Wilson **17**, 288
- On the Oscillatory Velocity Field in Sunspot Atmosphere
A. Bhatnagar **18**, 40
- Planetary Waves on the Sun?
S. T. Suess **18**, 172
- The Reduction of the Solar Velocity Field into Its Oscillatory and Slowly-Varying Components
N. R. Sheeley, Jr. and A. Bhatnagar **18**, 195
- A Sodium Experiment for Photospheric Velocity Field Observations
E. Fossat and F. Roddier **18**, 204
- Measurements of the Oscillatory and Slowly-Varying Components of the Solar Velocity Field
N. R. Sheeley, Jr. and A. Bhatnagar **18**, 379
- A Power Spectrum Analysis of Granular Intensity Fluctuations and Velocities
H. Reiling **19**, 297
- Two-Dimensional Observations of the Velocity Field in and around Sunspots
N. R. Sheeley, Jr. and A. Bhatnagar **19**, 338
- Interference in Solar Oscillations
R. J. Reif and Steven Musman **20**, 257
- The Use of the Goldberg-Unno Method for the Investigation of Small-Scale Photosphere Motions
E. Gurtovenko and V. Troyan **20**, 264
- Some Properties of Velocity Fields in the Solar Photosphere. IV: Long Periods, Five Minute Oscillations, and the Supergranulation at Lower Layers
Franz-Ludwig Deubner **22**, 263
- Spectral Analyses of Solar Photospheric Fluctuations. I: Power, Coherence and Phase Spectra Calculated by Fast-Fourier-Transform Techniques
Frank N. Edmonds, Jr. and Carol J. Webb **22**, 276
- Observations of Short-Period Oscillations in Two Dimensions
J. Harvey and Robert Howard **23**, 300
- Velocity Oscillations in the Solar Atmosphere
J. C. Bhattacharyya **24**, 274
- Spectral Analyses of Solar Photospheric Fluctuations. III: Bi-Dimensional Power, Coherence and Phase Spectra of Deep-Seated Radial Velocity and Photometric Fluctuations
Frank N. Edmonds, Jr. and Carol J. Webb **25**, 44
- Micro- and Macroturbulent Motions and the Velocity Spectrum of the Solar Photosphere
C. de Jager **25**, 71

Contribution to the Observation of the Photospheric Oscillations

E. Fossat and G. Ricort **28**, 311

Short-Periodic Oscillations of the Magnetic Field of the Sun as a Star

B. A. Ioshpa, V. N. Obridko, and B. D. Shelting **29**, 385

Studies of Granular Velocities. III: The Influence of Finite Spectral and Spatial Resolution upon the Measurement of Granular Doppler Shifts

J. P. Mehlretter **30**, 19

Is There Horizontal Phase Propagation of 5-min Oscillations at High Velocities?

Franz-Ludwig Deubner and Nobukazu Hayashi **30**, 39

Analysis of the 5 min Oscillatory Photospheric Motion. I: A Problem in Waveform Classification

O. R. White and M. Y. Cha **31**, 23

Analysis of the 5 min Oscillatory Photospheric Motion. II: Statistical Analysis of the Oscillation as a Narrow-Band Random Process

M. Y. Cha and O. R. White **31**, 55

Fluctuations of Brightness and Vertical Velocity at Various Heights in the Photosphere

Richard C. Canfield and J. P. Mehlretter **33**, 33

Observational Study of the Five-Minute Oscillations in the Solar Atmosphere. I: Oscillatory Velocity and Intensity Fields

K. R. Sivaraman **33**, 319

Observational Study of the Five-Minute Oscillations in the Solar Atmosphere. II: Coherence and Phase Spectra of Velocity and Intensity Fluctuations

K. R. Sivaraman **33**, 333

The Determination of the Velocity Amplitude of the Total Photospheric Motion Field. I: The Use of the Weak and Moderately Weak Lines

N. N. Kondrashova and E. A. Gurtovenko **34**, 291

Studies of Granular Velocities. V: The Height Dependence of the Granular Doppler Shifts

W. Mattig and H. Schlebbe **34**, 299

Studies of Granular Velocities. IV: Statistical Analysis of Granular Doppler-Shifts

W. Mattig and A. Nesis **36**, 3

On the Energy Distribution in Wavenumber Spectra of the Granular Velocity Field

Franz-Ludwig Deubner **36**, 299

The Origin of the Solar Five-Minute Oscillation

Steven Musman **36**, 313

The Center-to-Limb Variation of the Photospheric Wave Spectrum

M. Stix and H. Wöhl **37**, 63

A Velocity Error in Babcock-Type Magnetographs

Edward N. Frazier **38**, 69

On the Determination of the Photospheric Velocity Distribution from Profiles of Weak Fraunhofer Lines

R. J. Rutten, P. Hoyng, and C. de Jager **38**, 321

Studies of Granular Velocities. VI: Changes in the Granular Velocity Field around Sunspots

W. Mattig and A. Nesis **38**, 337

Some Properties of Velocity Fields in the Solar Photosphere. V: Spatio-Temporal Analysis of High Resolution Spectra

Franz-Ludwig Deubner **39**, 31

Power Spectra of Velocity Fluctuations in Plages

Richard G. Teske **39**, 79

Detection of Small Scale Structure in Metal Lines at the Extreme Solar Limb

W. C. Livingston and O. R. White **39**, 289

Two-Dimensional Spatial Power Spectra of Photospheric Velocity Fluctuations

Richard G. Teske **39**, 363

Horizontal Velocities in the Solar Photosphere

Dainis Dravins **40**, 53

Acoustic Waves and the Geometric Scale in the Solar Atmosphere

Franz-Ludwig Deubner **40**, 333

Photospheric Velocity Field Associated with Moustaches

Reizaburo Kitai and Ichiro Kawaguchi **44**, 403

The Total Photospheric Motion Field

E. A. Gurtovenko 45, 25

A Study of Supergranulation Using a Diode Array Magnetograph

Simon P. Worden and George W. Simon 46, 73

Some Long-Lived Supergranules

A. Kubičela 47, 551

Convective Velocities Derived from Granule Contrast Profiles in Fe I $\lambda 6569.2$ R. J. Bray, R. E. Loughhead, and E. J. Tappere 49, 3 *Erratum 55, 274 and Replacement Figure: Fig. 1 - 53, 547*

The Dark Component of the Photospheric Network

Stephen A. Schoolman and Harry E. Ramsey 50, 25

The Height Variation of Granular and Oscillatory Velocities

Richard C. Canfield 50, 239

Studies of Granular Velocities. VII: Granular Velocities around Sunspots

W. Mattig and A. Nesis 50, 255

Vertical Velocity Fluctuations in Plage-Region Magnetic Points

R. G. Giovanelli and N. Brown 52, 27

Some Results of the Photospheric Large-Scale Velocity Research from Belgrade Observations

A. Kubičela and M. Karabin 52, 199

On the Asymmetry of Selected Fraunhofer Lines

R. I. Kostik and T. V. Orlova 53, 353

Variation of the Profiles of Medium-Strong Photospheric Lines with Heliographic Latitude

B. Caccin, R. Falciani, and A. Donati Falchi 57, 13

Motions in Solar Magnetic Tubes. I: The Downflow

R. G. Giovanelli and C. Slaughter 57, 255

Motions in Solar Magnetic Tubes. II: The Oscillations

R. G. Giovanelli, W. C. Livingston, and J. W. Harvey 59, 49

Studies of Granular Velocities. VIII: The Height Dependence of the Vertical Granular Velocity Component

C. J. Durrant, W. Mattig, A. Nesis, G. Reiss, and W. Schmidt 61, 251

On the Microturbulence in the Solar Photosphere

R. I. Kostik and T. V. Orlova 62, 89

Dependence of the Correlation of Small Scale Photospheric Structures upon Resolution

R. G. Teske and G. H. Elste 62, 241

Large-Scale Solar Velocity Fields

Thomas L. Duvall, Jr. 63, 3

On Depth-Dependence of Photospheric Oscillations

A. Koch, G. Küveler, and E. H. Schröter 64, 13

The Supergranule Velocity Field

R. G. Giovanelli 67, 211

Photospheric Line Asymmetry and Granular Velocity Models

S. L. Keil and F. H. Yackovich 69, 213

Are the High-Latitude Torsional Oscillations of the Sun Real?

Barry J. LaBonte and Robert Howard 80, 373

A Statistical Analysis of Na I D₁ Profile Fluctuations at the Center of the Solar Disk. I: Data Reduction and Resolvable Velocities

Frank N. Edmonds, Jr. and Jin-Chung Hsu 83, 217

On the Interpretation of Fraunhofer Line Doppler Shifts at Supergranule Boundaries

P. Miller, P. Foukal, and S. Keil 92, 33

The Solar O I λ 7773 Triplet. I: Spatially Resolved Profiles

A. Kavetsky and B. J. O'Mara 92, 47

Plasma Motion in Umbrae and the Surrounding Photosphere Derived from Spectroscopic Doppler Measurements and Tracer Measurements of Spots

Axel Koch 93, 53

Separation of Large-Scale Photospheric Doppler Patterns

Herschel B. Snodgrass 94, 13

Dependence of the Properties of Magnetic Fluxtubes on Area Factor or Amount of Flux

J. O. Stenflo and J. W. Harvey 95, 99

The Solar O I $\lambda 7773$ Triplet. II: Analysis Using Line Inversion Techniques

A. Kavetsky and B. J. O'Mara 96, 1

The Limb Effect of the K I Resonance Line, 769.9 nm

B. N. Andersen, S. Barth, V. Hansteen, T. Leifsen, P. B. Lilje, and F. Vikanes 99, 17

On the Contribution of Horizontal Granular Motions to Observed Limb-Effect Curves

Horst Balthasar 99, 31

Velocity Fields, Solar Wind

Micro-Scale Structures in the Interplanetary Medium

Leonard F. Burlaga 4, 67

Decametric Radio Spectra and Positions during the Flare of August 28, 1966: 1522 UT

James W. Warwick 4, 446

Simultaneous Plasma and Magnetic-Field Measurements of Probable Tangential Discontinuities in the Solar Wind

George L. Siscoe, James M. Turner, and Alan J. Lazarus 6, 456

Large Velocity Discontinuities in the Solar Wind

Leonard F. Burlaga 7, 72

Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. I: The Quiet Component of the 9.1-cm Emission and the 'M-Regions'

J. Roosen 7, 448

On the North-South Asymmetry in the Solar Wind

G. L. Siscoe and P. J. Coleman, Jr. 8, 415

Meridional (North-South) Motions of the Solar Wind

G. L. Siscoe and L. T. Finley 9, 452

Tangential Discontinuities in the Solar Wind

Leonard F. Burlaga and Norman F. Ness 9, 467

A Model of the Magnetized Solar Wind

I. H. Urch 10, 219

Some Characteristics of the Solar Wind Inferred from the Study of Sodium Emission from Cometary Nuclei

M. K. V. Bappu and K. R. Sivaraman 10, 496

On Acceleration and Motion of Ions in Corona and Solar Wind

Johannes Geiss, Peter Hirt, and Heinrich Leutwyler 12, 458

Interplanetary Shock Observations by Mariner 5 and Explorer 34

A. J. Lazarus, K. W. Ogilvie, and L. F. Burlaga 13, 232

The Torque on the Interplanetary Plasma Due to Its Anisotropy

E. J. Weber 13, 240

Fluid Dynamics of Thin Solar Wind Filaments

G. L. Siscoe 13, 490

Solar Wind Event of January 2, 1970

V. Genesio-Elgarten and A. A. Joukoff 14, 234

Magnetic and Thermal Pressures in the Solar Wind

L. F. Burlaga and K. W. Ogilvie 15, 61

α -Particle Observations in the Solar Wind

V. Formisano, F. Palmiotto, and G. Moreno 15, 479

Type III Solar Radio Burst Storms Observed at Low Frequencies. III: Streamer Density, Inhomogeneities, and Solar Wind Speed

Joseph Fainberg and R. G. Stone 17, 392

Observation of Solar Wind Heavy Ions

M. B. Cattaneo, V. Formisano, G. Moreno, F. Palmiotto, F. Palutan, and P. Saraceno 17, 468

Solar Effects on the Cosmic Ray Intensity Observed at 70 M.W.E. Underground

E. Antonucci, G. Cini Castagnoli, and M. A. Doderio 17, 491

Variations in the Solar Wind Speed along the Earth's Orbit

J. T. Gosling 17, 499

The Decay Phase of Solar Flare Events

K. G. McCracken, U. R. Rao, R. P. Bukata, and E. P. Keath 18, 100

- Anisotropy Characteristics of Low Energy Cosmic Ray Population of Solar Origin
U. R. Rao, K. G. McCracken, F. R. Allum, R. A. R. Palmeira, W. C. Bartley, and I. Palmer **19**, 209
- Active Solar Radio Regions at Metric Frequencies and the Interplanetary Sector Structures
Kunitomo Sakurai and Robert G. Stone **19**, 247
- Propagation of Low Energy Protons Associated with the 24 January 1969 Solar Flare
A. Balogh, P. C. Hedgecock, R. J. Hynds, and J. Sear **20**, 150
- Correlation of Solar Wind Velocity with $\lambda 5303$ Coronal Intensity
P. N. Pathak **20**, 462
- Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind
S. Grzędzielski **21**, 225
- On Neutral Sheets in the Solar Wind
G. W. Pneuman **23**, 223
- Hydrogen and Helium Velocities in the Solar Wind
K. W. Ogilvie and H. J. Zwally **24**, 236
- Solar Activity and the Variations of the Geomagnetic K_p -Index. I: Photospheric Activity
John T. Mariska and Ludwig Oster **26**, 241
- A Comparison of Theoretical and Experimental Estimates of the Solar Proton Diffusion Coefficient during Three Flare Events
S. Webb, A. Balogh, J. J. Quenby, and J. F. Sear **29**, 477 *Erratum 30, 548*
- A Coronal Hole and Its Identification as the Source of a High Velocity Solar Wind Stream
A. S. Krieger, A. F. Timothy, and E. C. Roelof **29**, 505
- Variations of α -Particle Abundance in the Solar Wind
G. Moreno and F. Palmiotto **30**, 207
- Solar Wind Interaction with Comet Bennett (1969i)
L. F. Burlaga, J. Rahe, B. Donn, and M. Neugebauer **30**, 211
- Solar-Wind Properties at the Earth as Predicted by the Two-Fluid Model
B. R. Durney **30**, 223
- Energy Losses of Solar Cosmic Rays in Interplanetary Space
I. D. Palmer **30**, 235
- The Arch Systems, Cavities and Prominences in the Helmet Streamer Observed at the Solar Eclipse, November 12, 1966
Kuniji Saito and E. Tandberg-Hanssen **31**, 105
- Numerical Studies of Azimuthal Modulations of the Solar Wind with Magnetic Fields
Y. Nakagawa and R. E. Welck **32**, 257
- Large-Scale Structure of the Interplanetary Medium. I: High Coronal Source Longitude of the Quiet-Time Solar Wind
J. T. Nolte and E. C. Roelof **33**, 241
- Large-Scale Structure of the Interplanetary Medium. II: Evolving Magnetic Configurations Deduced from Multi-Spacecraft Observations
J. T. Nolte and E. C. Roelof **33**, 483
- On the Bulk Velocity of the Solar Wind α -Particles
G. Moreno and F. Palmiotto **34**, 243
- Solar Wind Direction from Heos I and Explorer 33 Satellites
A. Egidi and C. Signorini **34**, 247
- The Solar Wind Velocity in the Eleven-Year Cycle No. 20 and the Solar Radar Cross-Section
Stephen Pintér **35**, 225
- Abundance Differences in Solar Wind Double Streams
J. R. Asbridge, S. J. Bame, and W. C. Feldman **37**, 451
- An Investigation of Some Large Directional Discontinuities in the Solar Wind Plasma Using Multisatellite Observations
S. Webb and J. J. Quenby **38**, 257
- A Comment on the Detection of Closed Magnetic Structures in the Solar Wind
J. T. Gosling and E. C. Roelof **39**, 405
- Direct Observations of a Flare Related Coronal and Solar Wind Disturbance
J. T. Gosling, E. Hildner, R. M. MacQueen, R. H. Munro, A. I. Poland, and C. L. Ross **40**, 439
- Solar Wind: The Quasi-Radial Approximation and Its Limitations
S. T. Suess and S. F. Nerney **40**, 487

- On the Correlation of Coronal Green-Line Intensity and Solar Wind Velocity
E. C. Roelof, S. Cuperman, and A. Sternlieb **41**, 349
- On the Possibility of Deducing Interplanetary and Solar Parameters from Geomagnetic Records
C. T. Russell **42**, 259
- Disturbances in the Solar Wind from IPS Measurements in August 1972
B. J. Rickett **43**, 237
- On Solar Wind Helium and Heavy Ion Temperatures
Joan Feynman **43**, 249
- Fast Solar Electrons, Interplanetary Plasma and km-Wave Type-III Radio Bursts Observed from the IMP-6 Spacecraft
Hector Alvarez, Robert P. Lin, and Samuel J. Bame **44**, 485
- Meridional Flow in the Solar Wind in the Presence of Latitudinally Dependent Boundary Conditions
S. F. Nerney and S. T. Suess **45**, 255
- Coronal Holes as Sources of Solar Wind
J. T. Nolte, A. S. Krieger, A. F. Timothy, R. E. Gold, E. C. Roelof, G. Vaiana, A. J. Lazarus, J. D. Sullivan, and P. S. McIntosh **46**, 303 *Erratum/Replacement Figure: Fig. 2 - 53, 547*
- Coronal Holes, Solar Wind Streams, and Recurrent Geomagnetic Disturbances: 1973-1976
N. R. Sheeley, Jr., J. W. Harvey, and W. C. Feldman **49**, 271
- Energetic Properties of Interplanetary Plasma at the Earth's Orbit Following the August 4, 1972 Flare
C. D'Uston, J. M. Bosqued, F. Cambou, V. V. Temny, G. N. Zastenker, O. L. Vaisberg, and E. G. Eroshenko **51**, 217
- Study of Alpha Component Dynamics in the Solar Wind Using the Prognoz Satellite
J. M. Bosqued, C. D'Uston, A. A. Zertzalov, and O. L. Vaisberg **51**, 231
- High Coronal Structure of High Velocity Solar Wind Stream Sources
J. T. Nolte, A. S. Krieger, E. C. Roelof, and R. E. Gold **51**, 459
- A Pictorial Comparison of Interplanetary Magnetic Field Polarity, Solar Wind Speed, and Geomagnetic Disturbance Index during the Sunspot Cycle
N. R. Sheeley, Jr., J. R. Asbridge, S. J. Bame, and J. W. Harvey **52**, 485
- Solar-Cycle Evolution of the Coronal General Magnetic Field of 1959-1974 and the Synchronous Variation of High-Speed Solar Wind Streams and Galactic Cosmic Rays
Hirokazu Yoshimura **54**, 229
- A Sheet-Current Approach to Coronal-Interplanetary Modeling
Tyan Yeh and G. W. Pneuman **54**, 419
- Analysis of the Complex Solar Particle Event on April 29-30, 1973
T. Gombosi, J. Kóta, A. J. Somogyi, V. G. Kurt, B. M. Kuzhevskii, and Yu. I. Logachev **54**, 441
- Thermally Conductive Flows in Coronal Holes
R. S. Steinolfson and E. Tandberg-Hanssen **55**, 99
- A Survey of Coronal Holes and Their Solar Wind Associations throughout Sunspot Cycle 20
R. M. Broussard, N. R. Sheeley, Jr., R. Tousey, and J. H. Underwood **56**, 161
- Local Instabilities of Alfvén Waves in High Speed Streams
B. Bavassano, M. Dobrowolny, and G. Moreno **57**, 445
- Coronal Holes, Solar Wind Streams, and Geomagnetic Activity during the New Sunspot Cycle
N. R. Sheeley, Jr. and J. W. Harvey **59**, 159
- Solar Wind Stream Structure during the Early Phase of the Solar Cycles 20 and 21
J. T. Nolte, J. M. Davis, and J. D. Sullivan **60**, 207
- Relation between Superheating and Superacceleration of Helium in the Solar Wind
M. M. Neugebauer and W. C. Feldman **63**, 201
- Polar Coronal Holes and Solar Cycles
Paul A. Simon **63**, 399
- Recurrency and the Origin of the Vertical Component of the Interplanetary Magnetic Field
M. I. Pudovkin, D. I. Ponyavin, and A. D. Chertkov **66**, 411
- Ten Cycles of Solar and Geomagnetic Activity
J. P. Legrand and P. A. Simon **70**, 173
- Coronal Holes, Solar Wind Streams, and Geomagnetic Disturbances during 1978 and 1979
N. R. Sheeley, Jr. and J. W. Harvey **70**, 237

Passage of the Solar Current Disk and Major Geomagnetic Storms

S.-I. Akasofu **71**, 175

Energy Balance of the Corona and the Origin of Quasi-Stationary High-Speed Solar Wind Streams

V. A. Kovalenko **73**, 383

Preferred Bartels Days of High-Speed Plasma Streams in the Solar Wind

B. A. Lindblad **74**, 187

A Catalogue of High-Speed Plasma Streams in the Solar Wind

B. A. Lindblad and H. Lundstedt **74**, 197

Correlation of High Latitude Coronal Holes with Solar Wind Streams far above or below the Ecliptic

Kile B. Baker and Michael D. Papagiannis **78**, 365

Statistical Properties of MHD Fluctuations Associated with High Speed Streams from Helios-2 Observations

B. Bavassano, M. Dobrowolny, G. Fanfoni, F. Mariani, and N. F. Ness **78**, 373

Transient Response of the Solar Wind to Changes in Flow Geometry. Flows in Coronal Holes

S. S. Hasan and P. Venkatakrishnan **80**, 385

The Radial Evolution of the IMF Fluctuations: A Comparison with Theoretical Models

U. Villante and M. Vellante **81**, 367

Cosmic Ray Intensity Variations and Two Types of High-Speed Solar Streams

D. Venkatesan, A. K. Shukla, and S. P. Agrawal **81**, 375

A Statistical Study of MHD Discontinuities in the Inner Solar System: Helios 1 and 2

F. Mariani, B. Bavassano, and U. Villante **83**, 349

Helium Abundance Variations in the Solar Wind

G. Borriani, J. T. Gosling, S. J. Bame, and W. C. Feldman **83**, 367

Momentum Flux Invariance and Solar Wind Sources

Raphael Steinitz **83**, 379

Flow-Tube Dynamics and Coronal Holes

D. Summers **85**, 93

Preferred Longitudes of Sunspot Groups and High-Speed Solar Wind Streams: Evidence for a 'Solar Memory'

Horst Balthasar and Manfred Schussler **87**, 23

Expansion of the Solar Wind from a Two-Hole Corona

Y. C. Whang **88**, 343

A Catalogue of High-Speed Plasma Streams in the Solar Wind 1975-78

B. A. Lindblad and H. Lundstedt **88**, 377

Geomagnetic Disturbances Associated with Disappearing Solar Filaments

J. Hanumath Sastri, K. B. Ramesh, and J. V. S. V. Rao **98**, 177

Waves

Generation of Acoustic and Gravity Waves by Turbulence in an Isothermal Stratified Atmosphere

Robert F. Stein **2**, 385

Solar Flares as Resulting from the Temporary Interruption of Energy Flow to the Corona: a Case of Hydromagnetic Resonance

G. W. Pneuman **2**, 462

Magneto-Gravity Waves and the Heating of the Solar Corona

Alden McLellan IV and F. Winterberg **4**, 401

The Space Spectrum of Convective Instability

B. E. Žiljaev **6**, 351

Non-Divergent Oscillations in the Solar Atmosphere

Walter L. Jones **7**, 204

On the Energy Dissipation of Fast Hydromagnetic Shock Waves in the Solar Chromosphere

R. Mäcke **10**, 348

Thermally Driven Motions in a Gravitational Atmosphere

R. J. Bessey and M. Kuperus **12**, 216

On Frequency and Strength of Shock Waves in the Solar Atmosphere

Peter Ulmschneider **12**, 403

Excitation of Non-Spherical Waves in Solar Atmosphere in the Presence of Toroidal Magnetic Field

Shoji Kato and Y. Nakagawa **14**, 138

Shock Wave Dissipation in Magnetically Active Regions

C. J. Durrant and Andrew G. Michalitsanos **18**, 60

- Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind
S. Grzędziński **21**, 225
- On the Directional Dependence of the Emission of Acoustic Noise by Convective Turbulence in a Gravitational Atmosphere
M. Kuperus **22**, 257
- Alfvén Waves in Umbral Flux Tubes
P. R. Wilson **22**, 434
- Further Aspects of Weak Shock Theory Applied to the Solar Chromosphere
Stuart D. Jordan **30**, 327
- Interpretation of Distinct Type IVmA- and IV μ -Bursts on the Basis of Micro-Instabilities and of Resonant Nonlinear Interaction of Waves
L. Mollwo **30**, 497
- On the Solar Tsunami
V. V. Kassinsky and V. A. Krat **31**, 219
- Note on the Response of an Atmosphere to a Localized Turbulent Source
Janine Provost **33**, 103
- Solar Atmospheric Heating
J. H. Piddington **33**, 363
- Excess Heating of Corona and Chromosphere Above Magnetic Regions by Non-Linear Alfvén Waves
Yutaka Uchida and Osamu Kaburaki **35**, 451
- The Response of an Isothermal Atmosphere to Pressure Fluctuations at Its Base and the Five-Minute Oscillations in the Solar Photosphere
R. L. Moore **36**, 321
- Response of an Optically Thin, Isothermal Atmosphere to a Convective Overshoot
Cheng-Jen Chen **37**, 53
- Coronal Heating by Alfvén Waves
Donat G. Wentzel **39**, 129
- Response to a Bounded Atmosphere to a Non-Resonant Excitation. I: Isothermal Case
Janine Provost **40**, 257
- Acoustic Waves in the Lower Solar Atmosphere
C. Chiuderi and C. Giovanardi **41**, 35
- Alfvén Waves and the Sunspot Phenomenon
P. R. Wilson **42**, 333
- Plasma Emission Due to Isotropic Fast Electrons, and Types I, II and V Solar Radio Bursts
D. B. Melrose **43**, 211
- Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. I: Bernstein Modes and Plasma Waves in a Hybrid Band
V. V. Zheleznyakov and E. Ya. Zlotnik **43**, 431
- Generation of Intermediate Drift Bursts in Solar Type IV Radio Continua through Coupling of Whistlers and Langmuir Waves
Jan Kuijpers **44**, 173
- Cyclotron Wave Instability in the Corona and the Origin of Solar Radio Emission with Fine Structure. II: Origin of 'Tadpoles'
V. V. Zheleznyakov and E. Ya. Zlotnik **44**, 447
- Cyclotron Wave Instability in the Corona and the Origin of Solar Radio Emission with Fine Structure. III: Origin of Zebra-Pattern
V. V. Zheleznyakov and E. Ya. Zlotnik **44**, 461
- Large Scale Magnetic Dipole and Multipole Progressive Waves in the Photosphere
I. K. Csada **47**, 555
- Heating of the Solar Transition Zone and Corona
D. Vanbeveren and C. De Loore **50**, 99
- Coronal Heating by Alfvén Waves, II
Donat G. Wentzel **50**, 343
- On the Role of Hydromagnetic Waves in the Corona and the Base of the Solar Wind
Donat G. Wentzel **52**, 163

- On the Occurrence of Critical Levels in Solar Magnetohydrodynamics
J. A. Adam **52**, 293
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. II: Semi-Analytical Approach
T. Takakura **52**, 429
- Vertical Motions in an Intense Magnetic Flux Tube
B. Roberts and A. R. Webb **56**, 5
- Overstabilization of Acoustic Modes in a Polytopic Atmosphere
H. M. Antia, S. M. Chitre, and D. M. Kale **56**, 275
- Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. II: Application to Solar Photospheric Observations
B. Schmieder **57**, 245
- Local Instabilities of Alfvén Waves in High Speed Streams
B. Bavassano, M. Dobrowolny, and G. Moreno **57**, 445
- Wave Reflection and Wave Disorder in the Solar Transition Zone and Corona
Donat G. Wentzel **58**, 307
- The Structure of the Turbulent Shock Wave Propagating in the Solar Atmosphere across the Magnetic Field
V. V. Zaitsev, O. G. Parfenov, and A. V. Stepanov **60**, 279
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. III: Radio Emissions from Plasma Waves
T. Takakura **61**, 143
- On Radiative Dissipation of Sinusoidal Compressive Waves in the Chromosphere
R. G. Giovanelli **62**, 253
- Vertical Motions in an Intense Magnetic Flux Tube. III: On the Slender Flux Tube Approximation
B. Roberts and A. R. Webb **64**, 77
- Coronal Heating by Prominence Turbulence
W. van Tend **66**, 29
- First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares
Dean F. Smith **66**, 135
- Thermal Stability of a Corona Heated by Fast Mode Waves
Ellen Zweibel **66**, 305
- A Plasma-Emission Mechanism for Type I Solar Radio Emission
D. B. Melrose **67**, 357
- Vertical Motions in an Intense Magnetic Flux Tube. IV: Radiative Relaxation in a Uniform Medium
A. R. Webb and B. Roberts **68**, 71
- Vertical Motions in an Intense Magnetic Flux Tube. V: Radiative Relaxation in a Stratified Medium
A. R. Webb and B. Roberts **68**, 87
- Characteristics of Damping of the Pulses in the Sun
G. C. Das **71**, 215
- Comment on 'First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares'
Gerard Van Hoven **73**, 205
- Energy Balance of the Corona and the Origin of Quasi-Stationary High-Speed Solar Wind Streams
V. A. Kovalenko **73**, 383
- A Note on the Existence of Alfvén Surface Waves
C. Uberoi **78**, 351
- On Waves in Non-Isothermal, Compressible, Ionized and Viscous Atmospheres
L. M. B. C. Campos **82**, 355
- Wave Diagrams for MHD Modes in a Magnetically Structured Atmosphere
I. C. Rae and B. Roberts **84**, 99
- The Instability of Hydromagnetic Planetary-Gravity Waves in a Zonal Flow and Transverse Magnetic Field
O. M. El Mekki **85**, 83
- A Torsional Wave Model for Solar Radio Pulsations
K. F. Tapping **87**, 177
- Umbral Oscillations in the Presence of a Spreading Magnetic Field
P. S. Cally **88**, 77
- Visible Coronal Emission Associated with a Quiescent Prominence
Raymond N. Smartt and Zhenda Zhang **90**, 315

- The Loss-Cone Driven Instability for Langmuir Waves in an Unmagnetized Plasma
R. G. Hewitt and D. B. Melrose **96**, 157

Waves, Acoustic

- The Evershed Effect as a Wave Phenomenon
P. Maltby and G. Eriksen **2**, 249
- Generation of Acoustic and Gravity Waves by Turbulence in an Isothermal Stratified Atmosphere
Robert F. Stein **2**, 385
- The Effect of Short-Periodic Oscillations in the Photosphere on the Spectral Line Profile
R. B. Teplitskaya **6**, 18
- Heating of the Solar Corona
N. D'Angelo **7**, 321
- Vertical Velocities and Horizontal Wave Propagation in the Solar Photosphere
Steven Musman and David M. Rust **13**, 261
- The Umbral Flash as a Magneto-Acoustic Wave Phenomenon
Ove Havnes **13**, 323
- On the Frequency Dependence of Acoustic Emission by Isotropic Turbulence
Robert W. Milkey **14**, 77
- Two-Dimensional Guiding-Center Model of the Solar Wind-Moon Interaction
Y. C. Whang **14**, 489
- Trapped Gravity Waves and the Five-Minute Oscillations of the Solar Atmosphere
John H. Thomas, Patricia André Clark, and Alfred Clark, Jr. **16**, 51
- Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind
S. Grzędzielski **21**, 225
- On the Directional Dependence of the Emission of Acoustic Noise by Convective Turbulence in a Gravitational Atmosphere
M. Kuperus **22**, 257
- The Interpretation of Absorption-Line Shifts in the Solar Spectrum
R. I. Kostik and T. V. Orlova **26**, 42
- The Effect of Mechanical Waves on Empirical Solar Models
Peter Ulmschneider and Wolfgang Kalkofen **28**, 3
- The Five-Minute Period Oscillation in Magnetically Active Regions
A. G. Michalitsanos **30**, 47
- The Modulations of Trapped Oscillations in the Solar Chromosphere by Magnetic Fields
Y. Nakagawa **33**, 87
- Solar Atmospheric Heating
J. H. Piddington **33**, 363
- Non-Thermal Line Broadening in the Solar Chromosphere
R. A. E. Fosbury **34**, 309
- On the Structure and the Motion of a Spicule
W. Unno, E. Ribes, and I. Appenzeller **35**, 287
- On the Asymmetry of Selected Fraunhofer Lines, II
R. I. Kostik and T. V. Orlova **36**, 279
- The Origin of the Solar Five-Minute Oscillation
Steven Musman **36**, 313
- The Center-to-Limb Variation of the Photospheric Wave Spectrum
M. Stix and H. Wöhl **37**, 63
- High Resolution Spectroscopy of the Disk Chromosphere. IV: Evidence for the Propagation and Dissipation of Mechanical Energy in the Chromosphere
L. E. Cram **37**, 75
- The Nature of Running Penumbra Waves
Alan H. Nye and John H. Thomas **38**, 399
- Some Properties of Velocity Fields in the Solar Photosphere. V: Spatio-Temporal Analysis of High Resolution Spectra
Franz-Ludwig Deubner **39**, 31
- Radiation Loss and Mechanical Heating in the Solar Chromosphere
Peter Ulmschneider **39**, 327

- Acoustic Waves and the Geometric Scale in the Solar Atmosphere
 Franz-Ludwig Deubner **40**, 333
- Acoustic Waves in the Lower Solar Atmosphere
 C. Chiuderi and C. Giovanardi **41**, 35
- Hydromagnetic Waves in Structured Magnetic Fields
 L. E. Cram and P. R. Wilson **41**, 313
- The Five-Minute Oscillations in the Solar Atmosphere
 S. M. Chitre and M. H. Gokhale **43**, 49
- Asymmetries of the Solar Ca II Lines
 J. N. Heasley **44**, 275
- Wave Propagation in the Photosphere
 Brigitte Schmieder **47**, 435
- Observations of Quasiperiodic Variations in the Solar Flux at 10.7 GHz
 L. W. Avery **49**, 141
- Velocity Waves in the Quiet Solar Chromosphere
 Nicole Mein and Pierre Mein **49**, 231
- Physical Processes Determining the Chromospheric Temperature Distribution
 Stuart D. Jordan **51**, 51
- Infrared Continuum Observations of Five-Minute Oscillations
 C. A. Lindsey **52**, 263
- Solar Wind Heating by Heat Conduction Driven Ion Acoustic Instability
 P. Revathy and G. S. Lakhina **52**, 471
- Coronal Heating by Ion Acoustic Waves
 P. Revathy **53**, 445
- Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. I: Method
 B. Schmieder **54**, 269
- Transmission of Acoustic Wave Energy across a Magnetic Flux Sheath
 P. Venkatakrishnan and M. H. Gokhale **54**, 371
- Dynamical Implications of Si IV Line Profiles from OSO-8 Observations
 Donald E. Billings, Robert Roussel-Dupré, and Michael H. Francis **55**, 287
- Overstabilization of Acoustic Modes in a Polytopic Atmosphere
 H. M. Antia, S. M. Chitre, and D. M. Kale **56**, 275
- Conductivity of an Ion-Acoustically Turbulent Plasma
 V. Krishan **59**, 29
- A New Resonance in the Solar Atmosphere. I: Theory
 Joseph V. Hollweg **62**, 227
- Frequency Response of Magnetic Flux Sheaths
 P. Venkatakrishnan **63**, 135
- Wave Propagation in a Non-Isothermal Atmosphere and the Solar Five-Minute Oscillations
 C. Chiuderi and C. Giovanardi **64**, 27
- Wave Reflections in the Solar Atmosphere
 Janine Provost and Nicole Mein **64**, 43
- Propagation of Magnetically Guided Acoustic Shocks in the Solar Chromosphere
 P. Foukal and M. Smart **69**, 15
- Comment on the Paper 'A New Resonance in the Solar Atmosphere' by Joseph V. Hollweg
 P. Venkatakrishnan and S. S. Hasan **75**, 79
- Overstability of Acoustic Modes and the Solar Five-Minute Oscillations
 H. M. Antia, S. M. Chitre, and D. Narasimha **77**, 303
- Influence of the Acoustic Radiation Pressure on the Atmosphere of the Sun
 O. Bschorr **79**, 327
- Solar Models with Low Opacity
 P. A. Kuzurman and A. A. Pamyatnykh **82**, 223
- On the Problem of Spicular Oscillations
 V. I. Kulidzanishvili and Yu. D. Zhugzhda **88**, 35

Waves, Alfvén

Motions and Magnetic Fields in Quiescent Prominences

J. McKim Malville 4, 323

Effect of Progressive Alfvén Waves on the Profiles of Solar Spectral Lines

P. Maltby 5, 3

A Magnetohydrodynamic Approach for Interpreting Solar Polarization Bursts at 7 GHz

O. T. Matsuura 9, 173

The Effect of Alfvén Waves on MHD Fast Shocks

M. Scholer and J. W. Belcher 16, 472

Alfvén Waves in Umbral Flux Tubes

P. R. Wilson 22, 434

The Heating of the Solar Plasma Due to Microwave Phenomena Correlated with Type II Meter Bursts

E. Fürst 25, 178

A Model of Solar Flares and Faculae

J. H. Piddington 31, 229

Solar Atmospheric Heating

J. H. Piddington 33, 363

Excess Heating of Corona and Chromosphere Above Magnetic Regions by Non-Linear Alfvén Waves

Yutaka Uchida and Osamu Kaburaki 35, 451

The Nature of the Sunspot Phenomenon. II: Internal Overstable Modes

E. N. Parker 37, 127

The Alfvén-Wave Theory of Solar Flares

J. H. Piddington 38, 465

Coronal Heating by Alfvén Waves

Donat G. Wentzel 39, 129

The Nature of the Sunspot Phenomenon. III: Energy Consumption and Energy Transport

E. N. Parker 40, 275

Alfvén Waves and the Sunspot Phenomenon

P. R. Wilson 42, 333

Wave Systems in the Chromosphere

R. Giovanelli 44, 299

Kinetic Theory of MHD Instabilities in a Nonuniform Plasma

Akira Hasegawa 47, 325

Coronal Heating by Alfvén Waves, II

Donat G. Wentzel 50, 343

On the Role of Hydromagnetic Waves in the Corona and the Base of the Solar Wind

Donat G. Wentzel 52, 163

Alfvén Waves in the Solar Atmosphere

J. V. Hollweg 56, 305

Local Instabilities of Alfvén Waves in High Speed Streams

B. Bavassano, M. Dobrowolny, and G. Moreno 57, 445

Wave Reflection and Wave Disorder in the Solar Transition Zone and Corona

Donat G. Wentzel 58, 307

Coronal Heating by Prominence Turbulence

W. van Tend 66, 29

Is There a Limit on Solar Flare Proton Fluxes?

D. D. Barbosa 67, 181

Alfvén Waves in Sunspots

Alan H. Nye and Joseph V. Hollweg 68, 279

Alfvén Waves in the Solar Atmosphere. II: Open and Closed Magnetic Flux Tubes

Joseph V. Hollweg 70, 25

Enhanced Emission of Alfvén Waves from Sunspots during Proton Flares

D. J. Mullan 70, 381

Energy Balance of the Corona and the Origin of Quasi-Stationary High-Speed Solar Wind Streams

V. A. Kovalenko 73, 383

- Propagation Speeds and Acoustic Damping of Waves in Magnetic Flux Tubes
H. C. Spruit 75, 3
- Alfvén Waves in the Solar Atmosphere. III: Nonlinear Waves on Open Flux Tubes
Joseph V. Hollweg, Stephen Jackson, and David Galloway 75, 35
- Tunneling and Interference of Alfvén Waves
Y. D. Žugžda, V. Locāns 76, 77
- A Note on the Existence of Alfvén Surface Waves
C. Uberoi 78, 351
- Influence of the Acoustic Radiation Pressure on the Atmosphere of the Sun
O. Bschorr 79, 327
- Temperature Minimum Heating in Solar Flares by Resistive Dissipation of Alfvén Waves
A. Gordon Emslie and P. A. Sturrock 80, 99
- On Waves in Non-Isothermal, Compressible, Ionized and Viscous Atmospheres
L. M. B. C. Campos 82, 355
- On the Storage of High-Energy Protons in the Solar Corona: The Cyclotron Instability
B. I. Meerson and I. V. Rogachevskii 87, 337
- Coronal Heating and Photospheric Boundary Conditions
D. S. Spicer 88, 43
- Alfvén Waves and Turbulence in Quiescent Prominences
Eberhart Jensen 89, 275
- Alfvénic Resonant Cavities in the Solar Atmosphere: Simple Aspects
Joseph V. Hollweg 91, 269
- A Heating Model for the Transition Zone and Inner Corona
Li Xiao Qing, Zhenda Zhang, and Zhang Youyi 91, 289
- Chromospheric and Coronal Alfvénic Oscillations in Non-Vertical Magnetic Fields
Steven J. Schwartz, Paul S. Cally, and Nicole Bel 92, 81
- On the Diagnostic of Magnetic Fields in Sunspots through the Interpretation of Stokes Parameters Profiles
M. Landolfi, E. Landi Degl'Innocenti, and P. Arena 93, 269
- On the Linear Transformation and Resonant Absorption of Alfvén p -Modes in Sunspots
V. I. Zhukov 98, 39
- Perturbations of a Twisted Solar Coronal Loop: The Relation between Surface Waves and Instabilities
N. F. Cramer and I. J. Donnelly 99, 119
- Waves, Dispersion** (*see Waves*)
- Waves, Dissipation** (*see Waves*)
- Waves, Generation** (*see Waves*)
- Waves, Gravity** (*see Waves, Modes*)
- Waves, Hydromagnetic** (*see Waves, Modes*)
- Waves, Magnetohydrodynamic** (*see Waves, Modes*)
- Waves, Modes**
- Generation of Acoustic and Gravity Waves by Turbulence in an Isothermal Stratified Atmosphere
Robert F. Stein 2, 385
- Propagation of Hydromagnetic Disturbances in the Solar Corona and Moreton's Wave Phenomenon
Yutaka Uchida 4, 30
- The Effect of Magneto-Sonic Waves on a Zeeman Triplet with Application to Sunspots
P. Maltby 4, 96
- The Proton Flare of August 28, 1966
Helen W. Dodson and E. Ruth Hedeman 4, 229
- Magneto-Gravity Waves and the Heating of the Solar Corona
Alden McLellan IV and F. Winterberg 4, 401
- Reduced Shock Relations in Magnetohydrodynamics
T. D. Wilkerson 6, 44
- The Solar Flares of August 28 and 30, 1966
Harold Zirin and D. Russo Lackner 6, 86

- Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461
(*Invited Review Paper*)
Z. Švestka and P. Simon **10**, 3
- Plasma Wave Propagation in the Neighborhood of a Magnetic Neutral Point
Richard L. Harkness, Jr. **10**, 154
- On the Energy Dissipation of Fast Hydromagnetic Shock Waves in the Solar Chromosphere
R. Mäckle **10**, 348
- Radio Evidence of Directive Shock-Wave Propagation in the Solar Corona
K. Kai **10**, 460
- Evidence of Type II and Type IV Solar Radio Emission from a Common Flare-Induced Shock Wave
R. T. Stewart and K. V. Sheridan **12**, 229
- Thermal and Dynamical Stability of Prominences
Y. Nakagawa **12**, 419
- The Umbral Flash as a Magneto-Acoustic Wave Phenomenon
Ove Havnes **13**, 323
- Chromospheric Heating above Supergranular Boundaries
Robert W. Milkey **14**, 62
- Excitation of Non-Spherical Waves in Solar Atmosphere in the Presence of Toroidal Magnetic Field
Shoji Kato and Y. Nakagawa **14**, 138
- Two-Dimensional Guiding-Center Model of the Solar Wind-Moon Interaction
Y. C. Whang **14**, 489
- Trapped Gravity Waves and the Five-Minute Oscillations of the Solar Atmosphere
John H. Thomas, Patricia André Clark, and Alfred Clark, Jr. **16**, 51
- The Effect of Alfvén Waves on MHD Fast Shocks
M. Scholer and J. W. Belcher **16**, 472
- Planetary Waves on the Sun?
S. T. Suess **18**, 172
- Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind
S. Grzędzielski **21**, 225
- Alfvén Waves in Umbral Flux Tubes
P. R. Wilson **22**, 434
- Solar Seeing and the Spatial Properties of the Five-Minute Oscillations
John H. Thomas **24**, 262
- Velocity Oscillations in Solar Plage Regions
Cheng-Jen Chen and Paul S. Lykoudis **25**, 380
- Flare-Produced Coronal MHD-Fast-Mode Wavefronts and Moreton's Wave Phenomenon
Yutaka Uchida, Martin D. Altschuler, and Gordon Newkirk, Jr. **28**, 495
- The Five-Minute Period Oscillation in Magnetically Active Regions
A. G. Michalitsanos **30**, 47
- Radiative Damping of Trapped Gravity Waves in the Solar Atmosphere
Patricia André Clark and Alfred Clark, Jr. **30**, 319
- On the Solar Tsunami
V. V. Kassinsky and V. A. Krat **31**, 219
- The Modulations of Trapped Oscillations in the Solar Chromosphere by Magnetic Fields
Y. Nakagawa **33**, 87
- Nonlinear Wave Coupling in Type IV Solar Radio Bursts
Claudio Chiuderi, Riccardo Giachetti, and Hans Rosenberg **33**, 225
- Solar Atmospheric Heating
J. H. Piddington **33**, 363
- Excess Heating of Corona and Chromosphere Above Magnetic Regions by Non-Linear Alfvén Waves
Yutaka Uchida and Osamu Kaburaki **35**, 451
- Heated Solar Atmosphere: A One-Fluid Model
Egil Leer **35**, 467
- Correlation of a Flare-Wave and Type II Burst
Karen L. Harvey, Sara F. Martin, and Anthony C. Riddle **36**, 151
- The Nature of the Sunspot Phenomenon. I: Solutions of the Heat Transport Equation
E. N. Parker **36**, 249

- Resonant Scattering of Particles and Second Phase Acceleration in the Solar Corona
D. B. Melrose 37, 353
- The Nature of Running Penumbra Waves
Alan H. Nye and John H. Thomas 38, 399
- The Alfvén-Wave Theory of Solar Flares
J. H. Piddington 38, 465
- Power Spectra of Velocity Fluctuations in Plages
Richard G. Teske 39, 79
- Behavior of the Flare-Produced Coronal MHD Wavefront and the Occurrence of Type II Radio Bursts
Yutaka Uchida 39, 431
- A New Shock Locus for Similarity Solutions in One-Dimensional Unsteady Gas Dynamics
R. E. Grundy 40, 227
- Hydromagnetic Waves in Structured Magnetic Fields
L. E. Cram and P. R. Wilson 41, 313
- Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. I: Bernstein Modes and Plasma Waves in a Hybrid Band
V. V. Zheleznyakov and E. Ya. Zlotnik 43, 431
- Generation of Intermediate Drift Bursts in Solar Type IV Radio Continua through Coupling of Whistlers and Langmuir Waves
Jan Kuijpers 44, 173
- Kinetic Theory of MHD Instabilities in a Nonuniform Plasma
Akira Hasegawa 47, 325
- Wave Propagation in the Photosphere
Brigitte Schmieder 47, 435
- Velocity Waves in the Quiet Solar Chromosphere
Nicole Mein and Pierre Mein 49, 231
- Regulation of Solar Wind Heat Flux by Ordinary Mode Instability
G. S. Lakhina 52, 153
- On the Role of Hydromagnetic Waves in the Corona and the Base of the Solar Wind
Donat G. Wentzel 52, 163
- Wave Propagation in the Quiet Solar Chromosphere
N. Mein 52, 283
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. II: Semi-Analytical Approach
T. Takakura 52, 429
- An Unstable Arch Model of a Solar Flare
Daniel S. Spicer 53, 305
- Dynamical Implications of Si IV Line Profiles from OSO-8 Observations
Donald E. Billings, Robert Roussel-Dupré, and Michael H. Francis 55, 287
- Hydromagnetic-Gravity Wave Critical Levels in the Solar Atmosphere
O. El Mekki, I. A. Eltayeb, and J. F. McKenzie 57, 261
- Pulsations of Type IV Solar Radio Emission: The Bounce-Resonance Effects
B. I. Meerson, P. V. Sasorov, and A. V. Stepanov 58, 165
- Wave Reflection and Wave Disorder in the Solar Transition Zone and Corona
Donat G. Wentzel 58, 307
- Heating and Acceleration of α -Particles in the Solar Wind
P. Revathy 58, 397
- Relation between the Mode of Oscillation and the Velocity Amplitude of Chromospheric Waves
N. Mein 59, 3 *Errata* 59, 407
- Stability of the Ordinary Mode to an Electron Heat Flux
Don S. Lemons, William C. Feldman, and S. Peter Gary 59, 387
- Waves in the Sunspot Penumbra
H. M. Antia, S. M. Chitre, and M. H. Gokhale 60, 31
- On Radiative Dissipation of Sinusoidal Compressive Waves in the Chromosphere
R. G. Giovanelli 62, 253
- Low Frequency Turbulence in the Solar Corona and Fundamental Radiation of Type III Solar Radio Burst
T. Takakura 62, 375

Waves in the Sunspot UmbraH. M. Antia and S. M. Chitre **63, 67****Slowly Moving Disturbances in the X-Ray Corona**David M. Rust and Z. Švestka **63, 279****Vertical Motions in an Intense Magnetic Flux Tube. III: On the Slender Flux Tube Approximation**B. Roberts and A. R. Webb **64, 77****Heating of Coronal Loops by Fast Mode MHD Waves**Shadia Rifai Habbal, Egil Leer, and Thomas E. Holzer **64, 287****Coronal Heating by Prominence Turbulence**W. van Tend **66, 29****Thermal Stability of a Corona Heated by Fast Mode Waves**Ellen Zweibel **66, 305****Hydromagnetic Planetary Waves in Vertically Sheared Zonal Flow and Transverse Magnetic Field**O. M. El Mekki **68, 3****Vertical Motions in an Intense Magnetic Flux Tube. V: Radiative Relaxation in a Stratified Medium**A. R. Webb and B. Roberts **68, 87****Wave Propagation in a Magnetically Structured Atmosphere. I: Surface Waves at a Magnetic Interface**B. Roberts **69, 27****Wave Propagation in a Magnetically Structured Atmosphere. I: Surface Waves at a Magnetic Interface**B. Roberts **69, 27****Wave Propagation in a Magnetically Structured Atmosphere. II: Waves in a Magnetic Slab**B. Roberts **69, 39****Umbral Oscillations as Resonant Modes of Magneto-Atmospheric Waves**Mark A. Scheuer and John H. Thomas **71, 21****On a Possible Mechanism of Zebra-Pattern Generation in Solar Radio Emission**V. V. Fomichev and S. M. Fainshtein **71, 385****Propagation Speeds and Acoustic Damping of Waves in Magnetic Flux Tubes**H. C. Spruit **75, 3****Coupling Equations for a Flow-Wave Field Used to Faculae Heating**Li Xiaoping and Song Mutaó **75, 83****Fundamental Wave of Type III Solar Radio Bursts and Whistler Waves**T. Takakura **75, 277****Internal Atmospheric Hydromagnetic Planetary-Gravity Waves in Zonal Wind-Magnetic Shears**O. M. El Mekki **75, 351****Wave Propagation in a Magnetically Structured Atmosphere. III: The Slab in a Magnetic Environment**P. M. Edwin and B. Roberts **76, 239****Umbral Oscillations in a Detailed Model Umbra**John H. Thomas and Mark A. Scheuer **79, 19****Ion Acoustic Instability in the Presence of Plasma Turbulence in the Solar Wind**P. Revathy and S. R. Prabhakaran Nayar **79, 187****Compressibility Effects on Hydromagnetic Surface Waves**K. Somasundaram and C. Uberoi **81, 19****The Radial Evolution of the IMF Fluctuations: A Comparison with Theoretical Models**U. Villante and M. Vellante **81, 367****Observation of Five-Minute-Period Gravity Waves in the Solar Photosphere (*Invited Review, Abstract*)**R. T. Stebbins, Philip R. Goode, and Henry A. Hill **82, 163****Radiative Transfer and Solar Oscillations (*Invited Review*)**Jørgen Christensen-Dalsgaard and Søren Frandsen **82, 165****160-min Oscillations of the Sun as a Means of Studying of Its Internal Structure**E. A. Gavryuseva, Yu. S. Kopysov, and G. T. Zatsepin **82, 209****Solar Models with Low Opacity**P. A. Kuzurman and A. A. Pamyatnykh **82, 223****On Waves in Non-Isothermal, Compressible, Ionized and Viscous Atmospheres**L. M. B. C. Campos **82, 355****Wave Diagrams for MHD Modes in a Magnetically Structured Atmosphere**I. C. Rae and B. Roberts **84, 99****Modulational Instability of Fast Magnetosonic Waves in a Solar Plasma**Jun-Ichi Sakai **84, 109**

- The Instability of Hydromagnetic Planetary-Gravity Waves in a Zonal Flow and Transverse Magnetic Field
O. M. El Mekki 85, 83
- On Photospheric and Chromospheric Penumbral Waves
P. S. Cally and J. A. Adam 85, 97
- Wave Propagation in Intense Flux Tubes
B. Roberts 87, 77
- A Torsional Wave Model for Solar Radio Pulsations
K. F. Tapping 87, 177
- Frequency Splitting in Stria Bursts: Possible Roles of Low-Frequency Waves
D. B. Melrose 87, 359
- Umbral Oscillations in the Presence of a Spreading Magnetic Field
P. S. Cally 88, 77
- A Model of 'Disparitions Brusques' (Sudden Disappearances of Eruptive Prominences) as an Instability Driven by MHD Waves
J. Sakai and K.-I. Nishikawa 88, 241
- Forced Reconnection by Nonlinear Magnetohydrodynamic Waves
J. Sakai, T. Tajima, and F. Brunel 91, 103
- Torsional Oscillations of Low Mode
Herschel B. Snodgrass and Robert Howard 95, 221
- Waves, Moreton (*see Waves, Modes*)**
- Waves, Plasma**
- Theory of Solar Bursts
Tatsuo Takakura 1, 304 *Corrigenda* 3, 624 and 6, 336
- Interpretation of Type I- and IV mB-Bursts and Noise Storms by Mode Coupling in the Warm Plasma
L. Mollwo 12, 125
- Thermal and Dynamical Stability of Prominences
Y. Nakagawa 12, 419
- On the Relative Intensity of Second Branches of U-Like Solar Radio Bursts
D. F. Smith 13, 444
- Towards a Theory for Type III Solar Radio Bursts. I: Nature of the Exciting Agency
D. F. Smith 15, 202
- Thermal Properties of the Solar Wind Plasma
Tsutomu Toichi 18, 150
- Acceleration of Electrons and Solar Flares Due to Quasi-Static Electric Field
Tatsuo Takakura 19, 186
- Gyro-Resonance Absorption of Plasma Waves in the Corona and the Fine Structure of Solar Radio Bursts
V. V. Zheleznyakov and E. Ya. Zlotnik 20, 85
- A Pulsating Regime of Stream Instability and the Origin of 'Rain' Type Radio Bursts
V. V. Zaitsev 20, 95
- Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts
Dean F. Smith 23, 191
- A Model for Drift Pair and Hook Burst Emission from the Solar Corona
W. K. Yip 24, 197
- A Dynamic Theory of Type III Solar Radio Bursts
V. V. Zaitsev, N. A. Mityakov, and V. O. Rapoport 24, 444
- A Theory of the Origin of the Split Pair Burst Emission from the Solar Corona
W. K. Yip 30, 513
- Towards a Better Dynamic Theory for Type III Radio Bursts
Dean F. Smith 33, 213
- Towards a Theory for Type III Solar Radio Bursts. II: The Radiation Source
Dean F. Smith 34, 393
- On a Suggested Explanation for Fine Structures Observed in Some Wide-Band Bursts
W. N.-C. Sy 34, 427
- A Relationship between the Brightness Temperatures for Type III Bursts
D. B. Melrose 35, 441

- A Coherent Radiation Mechanism for Type IV dm Radio Bursts
Jan Kuijpers 36, 157
- On the Third Harmonic in Solar Radio Bursts
V. V. Zheleznyakov and E. Ya. Zlotnik 36, 443
- On the Propagation of the Electron Streams Generating Type III Bursts
D. B. Melrose 38, 205
- Analysis of the August 7, 1972 White Light Flare: Its Spectrum and Vertical Structure
Marcos E. Machado and David M. Rust 38, 499
- A Model Exciter for Type III Solar Radiobursts
C. C. Harvey 40, 193
- Plasma Emission Due to Isotropic Fast Electrons, and Types I, II and V Solar Radio Bursts
D. B. Melrose 43, 211
- Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. I: Bernstein Modes and Plasma Waves in a Hybrid Band
V. V. Zheleznyakov and E. Ya. Zlotnik 43, 431
- Generation of Intermediate Drift Bursts in Solar Type IV Radio Continua through Coupling of Whistlers and Langmuir Waves
Jan Kuijpers 44, 173
- Cyclotron Wave Instability in the Corona and the Origin of Solar Radio Emission with Fine Structure. III: Origin of Zebra-Pattern
V. V. Zheleznyakov and E. Ya. Zlotnik 44, 461
- Towards a Theory for Type III Solar Radio Bursts. III: The Radiation Source Including Scattering
Dean F. Smith and Anthony C. Riddle 44, 471
- Type IV dm Bursts: Onset and Sudden Reductions
Arnold O. Benz and Jan Kuijpers 46, 275 *Erratum/Replacement Figures: Figs. 6, 7 - 53, 547*
- Dynamics of a Cloud of Fast Electrons Traveling Through the Plasma
T. Takakura and H. Shibahashi 46, 323
- Empirical Study of the Conversion of the Plasma Waves into Transverse Waves
Y. Leblanc, A. Lecacheux, and A. Boischot 46, 501
- Effects of an Ambient Magnetic Field on the Properties of Langmuir Waves (*Extended Summary*)
D. B. Melrose 46, 511
- On the Theory of the Type III Burst Exciter
Robert A. Smith, Melvyn L. Goldstein, and Konstantinos Papadopoulos 46, 515
- Scattering in the Radiation Source and the Fundamental-Harmonic Hypothesis
Dean F. Smith 46, 529 *Erratum/Replacement Figure: Fig. 2 - 53, 547*
- A Model Explaining Type IV Continuum Bursts by Coherent Nonlinear Interaction of Bernstein Waves
L. Mollwo and K. Sauer 51, 435
- Collective Plasma Effects and the Electron Number Problem in Solar Hard X-Ray Bursts
J. C. Brown and D. B. Melrose 52, 117
- Collisionless Deceleration of Fast Electron Streams in the Solar Coronal Plasma
L. L. Bazelyan, N. Yu. Goncharov, V. V. Zaitsev, V. A. Zinichev, V. O. Rapoport, and Ya. G. Tsybko 52, 141
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. II: Semi-Analytical Approach
T. Takakura 52, 429
- Measurement of Plasma Wave Electric Fields in Solar Flares
W. D. Davis 54, 139
- Nonrelativistic Electron Stream Propagation in the Solar Atmosphere and Type III Radio Bursts
G. R. Magelssen and D. F. Smith 55, 211
- A Study of Type V Solar Radio Bursts. II. A Theoretical Model
R. D. Robinson 56, 405
- Meter Wavelength Pulsating Bursts during the May 21, 1972, Solar Noise Storm
K. F. Tapping 59, 145
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. III: Radio Emissions from Plasma Waves
T. Takakura 61, 143
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. IV: Simulation for Type III Solar Radio Bursts
T. Takakura 61, 161

Plasma Radiation Diagnostics of the Primary Energy Release Region in Solar Flares

Dean F. Smith and Daniel S. Spicer 62, 359

Low Frequency Turbulence in the Solar Corona and Fundamental Radiation of Type III Solar Radio Burst

T. Takakura 62, 375

Numerical Simulation of Type III Solar Radio Bursts Caused by High-Density Electron Beam

T. Takakura 62, 383

A Plasma-Emission Mechanism for Type I Solar Radio Emission

D. B. Melrose 67, 357

Langmuir-Wave Conversion as the Explanation of Moving Type IV Solar Meter-Wave Radio Outbursts

R. A. Duncan 73, 191

Fundamental Wave of Type III Solar Radio Bursts and Whistler Waves

T. Takakura 75, 277

Numerical Simulation of Type III Solar Radio Bursts on Meter- and Hectometric-Waves

T. Takakura 78, 141

Fundamental Emission for Type III Bursts in the Interplanetary Medium: The Role of Ion-Sound Turbulence

D. B. Melrose 79, 173

Numerical Simulation of the Weak Turbulence Excited by a Beam of Electrons in the Interplanetary Plasma

R. J.-M. Grogard 81, 173

Limitation Imposed by Strong Langmuir Turbulence on the Self-Consistency of the Quasi-Linear Dynamics

R. J.-M. Grogard 83, 207

The Plasma Radiation of Flare Kernels

V. V. Zaitsev and A. V. Stepanov 88, 297

Progress and Problems in the Theory of Type III Solar Radio Emission

Martin V. Goldman 89, 403

A Quasi-One-Dimensional Velocity Regime of Super-Thermal Electron Stream Propagation through the Solar Corona

B. N. Levin 92, 317

Propagation of Energetic Electron Streams in Solar Flares

Yung Mok 95, 181

The Loss-Cone Driven Instability for Langmuir Waves in an Unmagnetized Plasma

R. G. Hewitt and D. B. Melrose 96, 157

Quenching of the Beam-Plasma Instability by Large-Scale Density Fluctuations in 3 Dimensions

L. Muschietti, M. V. Goldman, and D. Newman 96, 181

On the Origin of Continuum Emission during Decametric Solar Noise Storms

B. N. Levin and V. O. Rapoport 96, 371

Waves, Propagation**The Evershed Effect as a Wave Phenomenon**

P. Maltby and G. Eriksen 2, 249

Propagation of Hydromagnetic Disturbances in the Solar Corona and Moreton's Wave Phenomenon

Yutaka Uchida 4, 30

Singular Variations near the Contact Discontinuity in the Theory of Interplanetary Blast Waves

T. S. Lee and W. W. Balwanz 4, 240

The Effect of Short-Periodic Oscillations in the Photosphere on the Spectral Line Profile

R. B. Teplitskaya 6, 18

Plasma Wave Propagation in the Neighborhood of a Magnetic Neutral Point

Richard L. Harkness, Jr. 10, 154

Interpretation of Type I- and IV mB-Bursts and Noise Storms by Mode Coupling in the Warm Plasma

L. Mollwo 12, 125

Vertical Velocities and Horizontal Wave Propagation in the Solar Photosphere

Steven Musman and David M. Rust 13, 261

The Umbral Flash as a Magneto-Acoustic Wave Phenomenon

Ove Havnes 13, 323

Chromospheric Heating above Supergranular Boundaries

Robert W. Milkey 14, 62

Strong Coronal Shocks and 'Thermal' Solar X-Ray Bursts

Charles L. Hyder 14, 196

- Two-Dimensional Guiding-Center Model of the Solar Wind-Moon Interaction
Y. C. Whang 14, 489
- Trapped Gravity Waves and the Five-Minute Oscillations of the Solar Atmosphere
John H. Thomas, Patricia André Clark, and Alfred Clark, Jr. 16, 51
- Wave Propagation in the Warm Plasma and the Spectrum of the Solar Radio Bursts
L. Mollwo 19, 128
- Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind
S. Grzędziński 21, 225
- On the Directional Dependence of the Emission of Acoustic Noise by Convective Turbulence in a Gravitational Atmosphere
M. Kuperus 22, 257
- Critical Point Regularity Conditions and Asymptotic Solutions to the Time Stationary, Linearized, Inhomogeneous Solar Wind Flow Problem
G. L. Siscoe and R. L. Carovillano 23, 211
- Tunnel-Effect and Propagation of 5-min Oscillations in the Solar Atmosphere
Y. D. Zhugzhda 25, 329
- Velocity Oscillations in Solar Plage Regions
Cheng-Jen Chen and Paul S. Lykoudis 25, 380
- Flare-Produced Coronal MHD-Fast-Mode Wavefronts and Moreton's Wave Phenomenon
Yutaka Uchida, Martin D. Altschuler, and Gordon Newkirk, Jr. 28, 495
- The Five-Minute Period Oscillation in Magnetically Active Regions
A. G. Michalitsanos 30, 47
- A Kinematic Model of a Solar Flare
Y. Nakagawa, S. T. Wu, and S. M. Han 30, 111
- Radiative Damping of Trapped Gravity Waves in the Solar Atmosphere
Patricia André Clark and Alfred Clark, Jr. 30, 319
- Interpretation of Distinct Type IVmA- and IV μ -Bursts on the Basis of Micro-Instabilities and of Resonant Nonlinear Interaction of Waves
L. Mollwo 30, 497
- A Theory of the Origin of the Split Pair Burst Emission from the Solar Corona
W. K. Yip 30, 513
- On the Solar Tsunami
V. V. Kassinsky and V. A. Krat 31, 219
- The Modulations of Trapped Oscillations in the Solar Chromosphere by Magnetic Fields
Y. Nakagawa 33, 87
- Note on the Response of an Atmosphere to a Localized Turbulent Source
Janine Provost 33, 103
- Nonlinear Wave Coupling in Type IV Solar Radio Bursts
Claudio Chiuderi, Riccardo Giachetti, and Hans Rosenberg 33, 225
- Solar Atmospheric Heating
J. H. Piddington 33, 363
- On the Structure and the Motion of a Spicule
W. Unno, E. Ribes, and I. Appenzeller 35, 287
- Excess Heating of Corona and Chromosphere Above Magnetic Regions by Non-Linear Alfvén Waves
Yutaka Uchida and Osamu Kaburaki 35, 451
- Heated Solar Atmosphere: A One-Fluid Model
Egil Leer 35, 467
- The Response of an Isothermal Atmosphere to Pressure Fluctuations at Its Base and the Five-Minute Oscillations in the Solar Photosphere
R. L. Moore 36, 321
- Response of an Optically Thin, Isothermal Atmosphere to a Convective Overshoot
Cheng-Jen Chen 37, 53
- High Resolution Spectroscopy of the Disk Chromosphere. IV: Evidence for the Propagation and Dissipation of Mechanical Energy in the Chromosphere
L. E. Cram 37, 75
- The Nature of the Sunspot Phenomenon. II: Internal Overstable Modes
E. N. Parker 37, 127

- On the Sun's Differential Rotation. Implications of the Difference in Angular Velocity between the Sunspots and Photosphere
B. R. Durney 38, 301
- Response of an Isothermal Bounded Atmosphere to an Applied Random Body-Force
G. Berthomieu 38, 311
- The Nature of Running Penumbra Waves
Alan H. Nye and John H. Thomas 38, 399
- The Alfvén-Wave Theory of Solar Flares
J. H. Piddington 38, 465
- Coronal Heating by Alfvén Waves
Donat G. Wentzel 39, 129
- A Two-Component Thermal Model of X-Ray Burst Sources
J. R. H. Herring 39, 175
- Behavior of the Flare-Produced Coronal MHD Wavefront and the Occurrence of Type II Radio Bursts
Yutaka Uchida 39, 431
- A Model Exciter for Type III Solar Radiobursts
C. C. Harvey 40, 193
- A New Shock Locus for Similarity Solutions in One-Dimensional Unsteady Gas Dynamics
R. E. Grundy 40, 227
- Response to a Bounded Atmosphere to a Non-Resonant Excitation. I: Isothermal Case
Janine Provost 40, 257
- Acoustic Waves in the Lower Solar Atmosphere
C. Chiuderi and C. Giovanardi 41, 35
- Hydromagnetic Waves in Structured Magnetic Fields
L. E. Cram and P. R. Wilson 41, 313
- Alfvén Waves and the Sunspot Phenomenon
P. R. Wilson 42, 333
- Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. I: Bernstein Modes and Plasma Waves in a Hybrid Band
V. V. Zheleznyakov and E. Ya. Zlotnik 43, 431
- Generation of Intermediate Drift Bursts in Solar Type IV Radio Continua through Coupling of Whistlers and Langmuir Waves
Jan Kuijpers 44, 173
- Asymmetries of the Solar Ca II Lines
J. N. Heasley 44, 275
- Effects of an Ambient Magnetic Field on the Properties of Langmuir Waves (*Extended Summary*)
D. B. Melrose 46, 511
- Kinetic Theory of MHD Instabilities in a Nonuniform Plasma
Akira Hasegawa 47, 325
- Velocity Waves in the Quiet Solar Chromosphere
Nicole Mein and Pierre Mein 49, 231
- Is the Solar 5 min Oscillation an Important Heating Mechanism for the Chromosphere and the Corona?
Peter Ulmschneider 49, 249
- Coronal Heating by Alfvén Waves, II
Donat G. Wentzel 50, 343
- Wave Propagation in the Quiet Solar Chromosphere
N. Mein 52, 283
- On the Occurrence of Critical Levels in Solar Magnetohydrodynamics
J. A. Adam 52, 293
- Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. II: Semi-Analytical Approach
T. Takakura 52, 429
- Transmission of Acoustic Wave Energy across a Magnetic Flux Sheath
P. Venkatakrishnan and M. H. Gokhale 54, 371
- Dynamical Implications of Si IV Line Profiles from OSO-8 Observations
Donald E. Billings, Robert Roussel-Dupré, and Michael H. Francis 55, 287
- Vertical Motions in an Intense Magnetic Flux Tube
B. Roberts and A. R. Webb 56, 5

Alfvén Waves in the Solar Atmosphere

J. V. Hollweg **56**, 305

Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. II: Application to Solar Photospheric Observations

B. Schmieder **57**, 245

Hydromagnetic-Gravity Wave Critical Levels in the Solar Atmosphere

O. El Mekki, I. A. Eltayeb, and J. F. McKenzie **57**, 261

Wave Reflection and Wave Disorder in the Solar Transition Zone and Corona

Donat G. Wentzel **58**, 307

Progressive Dipole Waves as the Constituents of the 22-Year Magnetic Cycle

I. K. Csada **58**, 423

The Structure of the Turbulent Shock Wave Propagating in the Solar Atmosphere across the Magnetic Field

V. V. Zaitsev, O. G. Parfenov, and A. V. Stepanov **60**, 279

Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. IV: Simulation for Type III Solar Radio Bursts

T. Takakura **61**, 161

Brightness Fluctuations of Solar Ultraviolet Line Intensities during a Shock-Wave Passage

Giannina Poletto **61**, 389

A New Resonance in the Solar Atmosphere. I: Theory

Joseph V. Hollweg **62**, 227

On Radiative Dissipation of Sinusoidal Compressive Waves in the Chromosphere

R. G. Giovanelli **62**, 253

Wave Propagation in a Non-Isothermal Atmosphere and the Solar Five-Minute Oscillations

C. Chiuderi and C. Giovanardi **64**, 27

Wave Reflections in the Solar Atmosphere

Janine Provost and Nicole Mein **64**, 43

Vertical Motions in an Intense Magnetic Flux Tube. III: On the Slender Flux Tube Approximation

B. Roberts and A. R. Webb **64**, 77

Heating of Coronal Loops by Fast Mode MHD Waves

Shadia Rifai Habbal, Egil Leer, and Thomas E. Holzer **64**, 287

Hydromagnetic Planetary Waves in Vertically Sheared Zonal Flow and Transverse Magnetic Field

O. M. El Mekki **68**, 3

Vertical Motions in an Intense Magnetic Flux Tube. IV: Radiative Relaxation in a Uniform Medium

A. R. Webb and B. Roberts **68**, 71

Vertical Motions in an Intense Magnetic Flux Tube. V: Radiative Relaxation in a Stratified Medium

A. R. Webb and B. Roberts **68**, 87

Alfvén Waves in Sunspots

Alan H. Nye and Joseph V. Hollweg **68**, 279

Wave Propagation in a Magnetically Structured Atmosphere. I: Surface Waves at a Magnetic Interface

B. Roberts **69**, 27

Wave Propagation in a Magnetically Structured Atmosphere. II: Waves in a Magnetic Slab

B. Roberts **69**, 39

Enhanced Emission of Alfvén Waves from Sunspots during Proton Flares

D. J. Mullan **70**, 381

Umbral Oscillations as Resonant Modes of Magneto-Atmospheric Waves

Mark A. Scheuer and John H. Thomas **71**, 21

Characteristics of Damping of the Pulses in the Sun

G. C. Das **71**, 215

On a Possible Mechanism of Zebra-Pattern Generation in Solar Radio Emission

V. V. Fomichev and S. M. Fainshtein **71**, 385

Propagation Speeds and Acoustic Damping of Waves in Magnetic Flux Tubes

H. C. Spruit **75**, 3

Alfvén Waves in the Solar Atmosphere. III: Nonlinear Waves on Open Flux Tubes

Joseph V. Hollweg, Stephen Jackson, and David Galloway **75**, 35

Comment on the Paper 'A New Resonance in the Solar Atmosphere' by Joseph V. Hollweg

P. Venkatakrishnan and S. S. Hasan **75**, 79

- Internal Atmospheric Hydromagnetic Planetary-Gravity Waves in Zonal Wind-Magnetic Shears
O. M. El Mekki **75**, 351
- Tunneling and Interference of Alfvén Waves
Y.-D. Žugžda, V. Locāns **76**, 77
- Wave Propagation in a Magnetically Structured Atmosphere. III: The Slab in a Magnetic Environment
P. M. Edwin and B. Roberts **76**, 239
- Radio Echo and Sporadic Radiation Scattering in the Solar Corona
E. P. Abranin, L. L. Bazelyan, V. V. Zaitsev, V. O. Rapoport, and Ya. G. Tsybko **78**, 179
- Compressibility Effects on Hydromagnetic Surface Waves
K. Somasundaram and C. Uberoi **81**, 19
- Radiative Transfer and Solar Oscillations (*Invited Review*)
Jørgen Christensen-Dalsgaard and Søren Frandsen **82**, 165
- On Waves in Non-Isothermal, Compressible, Ionized and Viscous Atmospheres
L. M. B. C. Campos **82**, 355
- Wave Diagrams for MHD Modes in a Magnetically Structured Atmosphere
I. C. Rae and B. Roberts **84**, 99
- Modulational Instability of Fast Magnetosonic Waves in a Solar Plasma
Jun-Ichi Sakai **84**, 109
- Wave Propagation in Intense Flux Tubes
B. Roberts **87**, 77
- On the Problem of Spicular Oscillations
V. I. Kulidzanishvili and Yu. D. Zhugzhda **88**, 35
- Wave Propagation in a Magnetic Cylinder
P. M. Edwin and B. Roberts **88**, 179
- Polarization of Fundamental Type III Radio Bursts
Donat G. Wentzel **90**, 139
- Alfvénic Resonant Cavities in the Solar Atmosphere: Simple Aspects
Joseph V. Hollweg **91**, 269
- On the Diagnostic of Magnetic Fields in Sunspots through the Interpretation of Stokes Parameters Profiles
M. Landolfi, E. Landi Degl'Innocenti, and P. Arena **93**, 269
- Long Nonlinear Waves in a Compressible Magnetically Structured Atmosphere. I: Slow Sausage Waves in a Magnetic Slab
E. G. Merzljakov and M. S. Ruderman **95**, 51
- Over-Reflection of Hydromagnetic Planetary-Gravity Waves at the Solar Helmet Streamers and Magnetic Sectors
O. M. El Mekki **96**, 397
- On the Linear Transformation and Resonant Absorption of Alfvén p -Modes in Sunspots
V. I. Zhukov **98**, 39
- Mass Motions Due to Shock Propagations along Low-Lying Loops in the Solar Atmosphere. On the Formation of Fibrils
Yoshinori Suematsu **98**, 67
- Perturbations of a Twisted Solar Coronal Loop: The Relation between Surface Waves and Instabilities
N. F. Cramer and I. J. Donnelly **99**, 119
- A Coherent Radiation Mechanism for Type IV Solar Radio Bursts
G. S. Lakhina and B. Buti **99**, 277
- Waves, Shock**
- Application of the Hypersonic Analog to the Standing Shock of Mars
Murray Dryer and Gary R. Heckman **2**, 112
- Singular Variations near the Contact Discontinuity in the Theory of Interplanetary Blast Waves
T. S. Lee and W. W. Balwanz **4**, 240
- A Model for Type-IV Emission in the Solar Burst of June 9, 1959 at Decametric Wavelengths
James W. Warwick **5**, 111
- Reduced Shock Relations in Magnetohydrodynamics
T. D. Wilkerson **6**, 44
- The Initial Development of Solar Flares
J. F. Vesecky and A. J. Meadows **6**, 80

- Plasma Turbulence in Solar Flares as an Explanation of Some Observed Phenomena
M. Friedman and S. M. Hamberger **8**, 104
- On the Energy Dissipation of Fast Hydromagnetic Shock Waves in the Solar Chromosphere
R. Mäcke **10**, 348
- Radio Evidence of Directive Shock-Wave Propagation in the Solar Corona
K. Kai **10**, 460
- Expanding Arch Structure of a Solar Radio Outburst
K. Kai **11**, 310
- Thermally Driven Motions in a Gravitational Atmosphere
R. J. Bessey and M. Kuperus **12**, 216
- Evidence of Type II and Type IV Solar Radio Emission from a Common Flare-Induced Shock Wave
R. T. Stewart and K. V. Sheridan **12**, 229
- On Frequency and Strength of Shock Waves in the Solar Atmosphere
Peter Ulmschneider **12**, 403
- Chromospheric Heating above Supergranular Boundaries
Robert W. Milkey **14**, 62
- Strong Coronal Shocks and 'Thermal' Solar X-Ray Bursts
Charles L. Hyder **14**, 196
- On the Determination of the Velocity of the Exciters of Type II Solar Radiobursts
H. G. van Bueren and M. Kuperus **14**, 208
- The Effect of Alfvén Waves on MHD Fast Shocks
M. Scholer and J. W. Belcher **16**, 472
- Shock Wave Dissipation in Magnetically Active Regions
C. J. Durrant and Andrew G. Michalitsanos **18**, 60
- The Heating of the Solar Plasma Due to Microwave Phenomena Correlated with Type II Meter Bursts
E. Fürst **25**, 178
- A Kinematic Model of a Solar Flare
Y. Nakagawa, S. T. Wu, and S. M. Han **30**, 111
- Further Aspects of Weak Shock Theory Applied to the Solar Chromosphere
Stuart D. Jordan **30**, 327
- On Some Results of Calculations of the Chromospheric Flare Initial Phase Model According to the Strong Gasodynamic Explosion Theory
R. E. Guseinov **31**, 401
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . I: First Event of 1973 January 11
R. T. Stewart, Marie K. McCabe, M. J. Koomen, R. T. Hansen, and G. A. Dulk **36**, 203
- Observations of Coronal Disturbances from 1 to 9 R_{\odot} . II: Second Event of 1973 January 11
R. T. Stewart, R. A. Howard, F. Hansen, T. Gergely, and M. Kundu **36**, 219
- Type II Radio Bursts and Particle Acceleration
Z. Švestka and L. Fritzová-Švestková **36**, 417
- Shock Waves Generated by the Intense Solar Flare of 1972, August 7, 15:00 UT
A. Maxwell and R. Rinehart **37**, 437
- A Type II Solar Radio Burst Observed in the Corona and in Interplanetary Space
I. D. Palmer **37**, 443
- A Two-Component Thermal Model of X-Ray Burst Sources
J. R. H. Herring **39**, 175
- Behavior of the Flare-Produced Coronal MHD Wavefront and the Occurrence of Type II Radio Bursts
Yutaka Uchida **39**, 431
- A New Shock Locus for Similarity Solutions in One-Dimensional Unsteady Gas Dynamics
R. E. Grundy **40**, 227
- Acoustic Waves in the Lower Solar Atmosphere
C. Chiuderi and C. Giovanardi **41**, 35
- The Influence of Shock-Waves on UV-Emission-Lines
Lutz R. Elzner **45**, 93
- Report on the Solar Physics-Plasma Physics Workshop, held at Stanford University, 17-20 September 1974
P. A. Sturrock, P. J. Baum, J. M. Beckers, C. E. Newman, E. R. Priest, H. Rosenberg, D. F. Smith, and D. G. Wentzel (eds.) **46**, 411

Heating of the Solar Transition Zone and Corona

D. Vanbeveren and C. De Loore 50, 99

The Shock Waves and the Magnetic Field in the Corona above the Active Region on February 17-28, 1969

Irena Garczyńska 51, 131

Ultraviolet Brightenings in Active Regions as Observed from OSO-8

B. W. Lites and E. R. Hansen 55, 347

The Structure of the Turbulent Shock Wave Propagating in the Solar Atmosphere across the Magnetic Field

V. V. Zaitsev, O. G. Parfenov, and A. V. Stepanov 60, 279

Brightness Fluctuations of Solar Ultraviolet Line Intensities during a Shock-Wave Passage

Giannina Poletto 61, 389

On Proton and Electron Acceleration by Shock Waves during Large Solar Flares

V. M. Gubchenko and V. V. Zaitsev 63, 337

Siphon Flows in Coronal Loops. I: Adiabatic Flow

P. J. Cargill and E. R. Priest 65, 251

Shock Waves and Type II Radiobursts in the Interplanetary Medium

A. Boischoit, A. C. Riddle, J. B. Pearce, and J. W. Warwick 65, 397

Common Origin for UV and Radio Fluctuations?

Giannina Poletto 66, 323

Turbulence in Fast-Mode Shocks as a Triggering Mechanism in a Solar Flare

Wim J. Weber 69, 119

Effect of Thermal Conduction and Radiation on the Dynamics of a Flaring Coronal Loop

S. T. Wu, L. C. Kan, Y. Nakagawa, and E. Tandberg-Hanssen 70, 137

Solar Radio Bursts of Spectral Type II, Coronal Shocks, and Optical Coronal Transients

Alan Maxwell and Murray Dryer 73, 313

Numerical Hydrodynamics of the Jet Phenomena in the Solar Atmosphere. I: Spicules

Yoshinori Suematsu, Kazunari Shibata, Takara Nishikawa, and Reizaburo Kitai 75, 99

Slow-Shock Heating and the Kopp-Pneuman Model for 'Post'-Flare Loops

P. J. Cargill and E. R. Priest 76, 357

Numerical Hydrodynamics of the Jet Phenomena in the Solar Atmosphere. II: Surges

Kazunari Shibata, Takara Nishikawa, Reizaburo Kitai, and Yoshinori Suematsu 77, 121

Why Are Spicules Absent over Plages and Long under Coronal Holes?

Kazunari Shibata and Yoshinori Suematsu 78, 333

On Waves in Non-Isothermal, Compressible, Ionized and Viscous Atmospheres

L. M. B. C. Campos 82, 355

A Numerical Experiment Relevant to Line-Tied Reconnection in Two-Ribbon Flares

T. G. Forbes and E. R. Priest 84, 169

A Piston-Driven Shock in the Solar Corona

Alan Maxwell, Murray Dryer, and Patrick McIntosh 97, 401

Mass Motions Due to Shock Propagations along Low-Lying Loops in the Solar Atmosphere. On the Formation

of Fibrils

Yoshinori Suematsu 98, 67

X-Ray and Extreme Ultraviolet Bright Points (*see X-Ray Structures*)

X-Ray Bursts

A Study of Energetic Solar Flare X-Rays

R. L. Arnoldy, S. R. Kane, and J. R. Winckler 2, 171

Note on Solar Hard X-Ray Bursts

C. de Jager 2, 347

Longitudinal Distribution of X-Bremsstrahlung on the Solar Disc

Štefan Pintér 8, 142

Solar X-Ray Bursts at Energies Less than 10 keV Observed with OSO-4

J. L. Culhane and K. J. H. Phillips 11, 117

Theory of Solar Radio Pulsation

Y. T. Chiu 13, 420

On the Polarization of the Emission of X-Ray Solar Flares

I. P. Tindo, V. D. Ivanov, S. L. Mandel'stam, and A. I. Shuryghin 14, 204

- On the Polarization and Anisotropy of Solar X-Radiation during Flares
Gerhard Elwert and Eberhard Haug **15**, 234
- The Cooling of Flare Produced Plasmas in the Solar Corona
J. L. Culhane, J. F. Vesecky, and K. J. H. Phillips **15**, 394
- On the X-Ray Control of the Ionospheric Absorption of HF Radio Waves
P. Trříska and J. Lařtovička **15**, 504
- Solar Soft X-Rays and Solar Activity. II: Soft X-Ray Emission during Solar Flares
Roger J. Thomas and Richard G. Teske **16**, 431
- The Time Behavior of Temperature and Emission Measure in X-Ray Flares
Robert W. Milkey, Norman K. Blocker, William H. Chambers, Paul E. Fehlau, Jack C. Fuller, and Walter E. Kunz **20**, 400
- Discussion of Paper 'On the Polarization and Anisotropy of Solar X-Radiation during Flares', by G. Elwert and E. Haug
S. W. Kahler, G. A. Doschek, J. F. Meekins, and D. M. Horan **20**, 422
- Reply to Discussion by Kahler *et al.*
G. Elwert and E. Haug **20**, 425
- Electron Temperature and Emission Measure Variations during Solar X-Ray Flares
D. M. Horan **21**, 188
- Localization of the Source of Flare X-Ray Emission during the Eclipse of 7 March, 1970
R. W. Kreplin and R. G. Taylor **21**, 452
- Solar Flares in the Extreme Ultraviolet. II: Comparisons with Other Observations
A. T. Wood, Jr. and R. W. Noyes **24**, 180
- Photographs of the Sun in the XUV-Region
M. Burger and J. H. Dijkstra **24**, 395
- The Role of Energetic Electrons in the Correlation of Meter and Decimeter Type III Bursts with 4 keV X-Ray Emission
S. W. Kahler **25**, 435
- Thermal and Non-Thermal Soft X-Ray Bursts
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini **27**, 164
- Evidence for a Common Origin of the Electrons Responsible for the Impulsive X-Ray and Type III Radio Bursts
S. R. Kane **27**, 174
- Non-Thermal Ionization and Recombination Processes during Solar Flares
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini **29**, 93
- Evidence for Thin-Target X-Ray Emission in a Small Solar Flare on 26 February 1972
D. W. Datlowe and R. P. Lin **32**, 459
- Further Polarization Measurements of the Solar Flare X-Ray Emission
I. P. Tindo, S. L. Mandel'stam, and A. I. Shuryghin **32**, 469
- Observations of Solar X-Ray Bursts in the Energy Range 5-15 keV
D. W. Datlowe, H. S. Hudson, and L. E. Peterson **35**, 193
- Polarization Results of Solar X-Rays from OSO-7
M. P. Nakada, W. M. Neupert, and R. J. Thomas **37**, 429
- X-Ray Bursts from Solar Flares behind the Limb
J.-René Roy and Dayton W. Datlowe **40**, 165
- Anisotropy and Polarization of Solar X-Ray Bursts
J. C. Henoux **42**, 219
- Slow X-Ray Bursts and Flares with Filament Disruption
Jean-René Roy and Frances Tang **42**, 425
- Heating and Cooling of the Thermal X-Ray Plasma in Solar Flares
Ronald L. Moore and Dayton W. Datlowe **43**, 189
- The Structure and Intensity Evolution of a Solar Burst at 2.8 cm and the Relation with the Soft X-Ray Emitting Region
Marcello Felli, Roberto Pallavicini, and Gianni Tofani **44**, 135
- Analysis of the Intensities and Profiles of the Spectral Line Mg XII 8.42 Å in the Solar X-Ray Spectrum
J. Jakimiec, V. V. Korneev, V. V. Krutov, I. A. Zhitnik, S. Płocieniak, B. Sylwester, and J. Sylwester **44**, 391

Coronal Changes Associated with a Disappearing Filament

N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, R. Tousey, J. B. Smith, Jr., D. M. Speich, E. Tandberg-Hanssen, R. M. Wilson, A. C. De Loach, R. B. Hoover, and J. P. McGuire 45, 377

The Polarization of X-Ray Emission of Some Solar Flares in July 1974

I. P. Tindo, A. I. Shuryghin, and W. Steffen 46, 219

Non-Thermal Processes during the 'Build-Up' Phase of Solar Flares and in Absence of Flares

S. R. Kane and M. Pick 47, 293

Coronal X-Ray Enhancements Associated with H α Filament Disappearances

D. F. Webb, A. S. Krieger, and D. M. Rust 48, 159

Directivity of Non-Thermal X-Ray Emission from Solar Flares

O. M. Kovrizhnikh, I. A. Savenko, and L. M. Chupova 50, 447

Comparison of Flare Bremsstrahlung Resulting from Energetic Thermal and Nonthermal Electrons

J. Davis and J. E. Rogers 51, 185

Prominence Mass Ejections and Their Effects on the Corona. I: The Eruptive Prominence of 21 August 1973 and the Surge of 4 December 1973

J. B. Smith, Jr., D. M. Speich, R. M. Wilson, E. Tandberg-Hanssen, and S. T. Wu 52, 379

Do Surges Heat the Corona?

David M. Rust, David F. Webb, and William MacCombie 54, 53

Early Evolution of an X-Ray Emitting Solar Active Region

C. J. Wolfson, L. W. Acton, J. W. Leibacher, and D. T. Roethig 55, 181

The Association of Nonthermal Electrons with Non-Flaring Coronal Transients

D. F. Webb and M. R. Kundu 57, 155

Prompt Solar Proton Events and Coronal Mass Ejections

S. W. Kahler, E. Hildner, and M. A. I. Van Hollebeke 57, 429

Kinematical Analysis of Flare Spray Ejecta Observed in the Corona

D. F. Webb and B. V. Jackson 73, 341

Soft X-Ray Emission from Active Regions Shortly before Solar Flares

C. J. Wolfson 76, 377

Short-Period Pulsations Observed Simultaneously by X-Ray and Radio Waves (*Abstract*)

S. S. Degaonkar, T. Takakura, P. Kaufmann, J. E. R. Costa, K. Ohki, and N. Nitta 86, 237

Expressions to Determine Temperatures and Emission Measures for Solar X-Ray Events from GOES Measurements

R. J. Thomas, R. Starr, and C. J. Crannell 95, 323

The Frequency of Long-Duration Solar X-Ray Events

M. J. Koomen, N. R. Sheeley, Jr., R. A. Howard, and D. J. Michels 97, 375

The X-Ray Signature of Solar Coronal Mass Ejections

R. A. Harrison, P. W. Waggett, R. D. Bentley, K. J. H. Phillips, M. Bruner, M. Dryer, and G. M. Simnett 97, 387

Hard X-Ray Imaging Evidence of Nonthermal and Thermal Burst Components

Marcos E. Machado, Marta G. Rovira, and Cora V. Sneibrun 99, 189

The Onset of Coronal Mass Ejections

G. M. Simnett and R. A. Harrison 99, 291

X-Ray Bursts, Association with Flares**A Study of Energetic Solar Flare X-Rays**

R. L. Arnoldy, S. R. Kane, and J. R. Winckler 2, 171

The Hard Solar X-Ray Burst of 18 September 1963

C. de Jager 2, 327

Note on Solar Hard X-Ray Bursts

C. de Jager 2, 347

The X-Ray and Extreme Ultraviolet Radiation of the August 28, 1966 Proton Flare as Deduced from Sudden Ionospheric Disturbance Data

R. F. Donnelly 5, 123

The Solar Flares of August 28 and 30, 1966

Harold Zirin and D. Russo Lackner 6, 86

- Observation of the Solar Soft X-Ray Component: Study of Its Relation to Transient and Slowly-Varying Phenomena Observed at Other Wavelengths
Richard G. Teske **6**, 193
- Comment on the X-Ray Event of July 7, 1966
R. Snijders **6**, 290
- Observations of Energetic X-Rays and Solar Cosmic Rays Associated with the 23 May 1967 Solar Flare Event
S. R. Kane and J. R. Winckler **6**, 304
- Solar Soft X-Rays and Solar Activity. I: Relationships between Reported Flares and Radio Bursts, and X-Ray Bursts
Richard G. Teske and Roger J. Thomas **8**, 348
- On the Localization, Size and Structure of the Regions of the X-Ray Flares on the Sun
I. L. Beigman, Yu. I. Grineva, S. L. Mandel'stam, L. A. Vainstein, and I. A. Žitnik **9**, 160
- De-Occultation X-Ray Events of 2 December, 1967
Harold Zirin, William Ingham, Hugh Hudson, and David McKenzie **9**, 269
- Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 (*Invited Review Paper*)
Z. Švestka and P. Simon **10**, 3
- Solar X-Ray Bursts at Energies Less than 10 keV Observed with OSO-4
J. L. Culhane and K. J. H. Phillips **11**, 117
- Identification of the Hard X-Ray Pulse in the Flare of September 11-12, 1968
J. Vorpahl and H. Zirin **11**, 285
- The Emission and Propagation of ~40 keV Solar Flare Electrons. I: The Relationship of ~40 keV Electron to Energetic Proton and Relativistic Electron Emission by the Sun
R. P. Lin **12**, 266
- Solar Soft X-Ray Flare Spectra from OSO-4
J. F. Meekins, G. A. Doschek, H. Friedman, T. A. Chubb, and R. W. Kreplin **13**, 198
- Major H α Flares in Centers of Activity with Very Small or No Spots
Helen W. Dodson and E. Ruth Hedeman **13**, 401
- Soft X-Ray Enhancement during Flares
S. D. Deshpande and J. N. Tandon **13**, 462
- Solar X-Ray Bursts and Their Relation to H α and Microwave Emissions
J. R. Harries **13**, 467
- On the Polarization of the Emission of X-Ray Solar Flares
I. P. Tindo, V. D. Ivanov, S. L. Mandel'stam, and A. I. Shuryghin **14**, 204
- Thermal Runaway as the Solar Flare Trigger Mechanism
S. W. Kahler and R. W. Kreplin **14**, 372
- On the Polarization and Anisotropy of Solar X-Radiation during Flares
Gerhard Elwert and Eberhard Haug **15**, 234
- The Cooling of Flare Produced Plasmas in the Solar Corona
J. L. Culhane, J. F. Vesecky, and K. J. H. Phillips **15**, 394
- Characteristics of Soft Solar X-Ray Bursts
Jerry F. Drake **16**, 152
- The Relation of Energetic Solar X-Rays ($h\nu > 60$ keV) and High Frequency Microwaves Deduced from the Periodic Bursts of August 8, 1968 Flare
George K. Parks and John R. Winckler **16**, 186
- Solar Soft X-Rays and Solar Activity. II: Soft X-Ray Emission during Solar Flares
Roger J. Thomas and Richard G. Teske **16**, 431
- The Location and Size of a Solar Hard X-Ray Burst on September 27, 1969
T. Takakura, K. Ohki, N. Shibuya, M. Fujii, M. Matsuoka, S. Miyamoto, J. Nishimura, M. Oda, Y. Ogawara, and S. Ota **16**, 454
- Soft Solar X-Rays and Solar Activity. IV: Some Evidence for the Altitude of X-Ray Source Volumes in Solar Flares
Richard G. Teske **17**, 181
- 10-100 keV Electron Acceleration and Emission from Solar Flares
R. P. Lin and H. S. Hudson **17**, 412

- Soft Solar X-Rays and Solar Activity. V: Relation of the Course of Soft X-Ray Fluctuations to the Course of Solar Activity, 9 March, 1967-18 May, 1968
Richard G. Teske 19, 356
- Magnetic Fields, Bremsstrahlung and Synchrotron Emission in the Flare of 24 October 1969
H. Zirin, Gail Pruss, and Joan Vorpahl 19, 463
- A Note on the Acceleration Phase of High-Energy Particles in the Solar Flare on 7 July, 1966
Kunitomo Sakurai 20, 147
- The Time Behavior of Temperature and Emission Measure in X-Ray Flares
Robert W. Milkey, Norman K. Blocker, William H. Chambers, Paul E. Fehlau, Jack C. Fuller, and Walter E. Kunz 20, 400
- Anisotropy of Solar Hard X-Radiation during Flares
Gerhard Elwert and Eberhard Haug 20, 413
- Soft Solar X-Rays and Solar Activity. VI: Optical Identification of Activity Associated with X-Ray Background Fluctuations
Richard G. Teske 21, 146
- Electron Temperature and Emission Measure Variations during Solar X-Ray Flares
D. M. Horan 21, 188
- Localization of the Source of Flare X-Ray Emission during the Eclipse of 7 March, 1970
R. W. Kreplin and R. G. Taylor 21, 452
- Results from OSO-IV: The Long Term Behavior of X-Ray Emitting Regions
A. Krieger, F. Paolini, G. S. Vaiana, and D. Webb 22, 150
- Soft X-Ray and Microwave Observations of Hot Regions in Solar Flares
H. S. Hudson and K. Ohki 23, 155
- Location of the Electron Acceleration Region in Solar Flares
S. R. Kane and R. P. Lin 23, 457
- Observations and Comments for the Solar Event of 24 October, 1969
Arthur E. Covington 24, 405
- New Measurements of the Polarization of X-Ray Solar Flares
I. P. Tindo, V. D. Ivanov, S. L. Mandel'stam, and A. I. Shuryghin 24, 429
- Solar Soft X-Rays and Solar Activity. VII: Observational Assessment of the Role of the Type III Acceleration Mechanism in Establishment of the Soft X-Ray Source Volume
Richard G. Teske and Roger J. Thomas 24, 434
- The Impulsive X-Ray Burst of October 10, 1970
S. R. Kane, S. W. Kahler, and J. D. Kurfess 25, 418
- X-Radiation ($E > 10$ keV), $H\alpha$ and Microwave Emission during the Impulsive Phase of Solar Flares
Joan A. Vorpahl 26, 397
- On the S- and B-Components of Solar Radio and X-Emission and Their Relationships to Energetic Solar Events
A. Krüger 27, 217
- Preliminary Interpretation of the Polarization Measurements Performed in 'Intercosmos-4' during Three X-Ray Solar Flares
I. P. Tindo, V. D. Ivanov, B. Valníček, and M. A. Livshits 27, 426
- Two Component Temperature Analysis of OSO-5 X-Ray Flare Data
J. R. H. Herring and I. J. D. Craig 28, 169
- Characteristics of Electron and High-Energy Proton Flares
Emmanuel T. Sarris and Stanley D. Shawhan 28, 519
- The Solar Albedo of Hard X-Ray Flares
N. Santangelo, H. Horstman, and E. Horstman-Moretti 29, 143
- Continuous Energy Injection at Numerous Bright Points during Soft X-Ray Flare Enhancement
W. M. Glencross 29, 429
- The Thermal Nature of Soft X-Ray Flares
I. J. D. Craig 31, 197
- Evidence for Thin-Target X-Ray Emission in a Small Solar Flare on 26 February 1972
D. W. Datlowe and R. P. Lin 32, 459
- Further Polarization Measurements of the Solar Flare X-Ray Emission
I. P. Tindo, S. L. Mandel'stam, and A. I. Shuryghin 32, 469

- Spatial Distribution of Soft X-Ray and EUV Emission Associated with a Chromospheric Flare of Importance 1B on August 2, 1972
W. M. Neupert, R. J. Thomas, and R. D. Chapman 34, 349
- Observations of Solar X-Ray Bursts in the Energy Range 5-15 keV
D. W. Datlowe, H. S. Hudson, and L. E. Peterson 35, 193
- On the Role of the Magnetic Configuration of Flares for Production of Type III Solar Radio Bursts
F. Axisa 35, 207
- Hard Solar Flare X-Ray Bursts on 8 December 1970
K. A. Anderson and W. A. Mahoney 35, 419
- On Anisotropy of Solar Hard X-Ray Emission
G. Pizzichini, A. Spizzichino, and G. R. Vespignani 35, 431
- A Multithermal Analysis of Solar X-Ray Emission
Kenneth P. Dere, Donald M. Horan, and Robert W. Kreplin 36, 459
- OSO-7 Observations of Solar X-Rays in the Energy Range 10-100 keV
D. W. Datlowe, M. J. Elcan, and H. S. Hudson 39, 155
- EUV Emission, Filament Activation and Magnetic Fields in a Slow-Rise Flare
David M. Rust, Y. Nakagawa, and W. M. Neupert 41, 397
- X-Ray Heating of a Low-Temperature Region in Chromospheric Flares
B. V. Somov 42, 235
- Thermal Models of Flaring Region Based on Observations by the SOLRAD 10 Satellite
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 44, 101
- Spatial Structure and Temporal Development of a Solar X-Ray Flare Observed from Skylab on June 15, 1973
R. Pallavicini, G. S. Vaiana, S. W. Kahler, and A. S. Krieger 45, 411
- Expansion of Chromospheric Matter in the Gradual Phase of Solar Flares
K. Ohki 45, 435
- The Polarization of X-Ray Emission of Some Solar Flares in July 1974
I. P. Tindo, A. I. Shuryghin, and W. Steffen 46, 219
- An Active Role for Magnetic Fields in Solar Flares (*Invited Paper*)
David M. Rust 47, 21
- Energy Storage and Deposition in a Solar Flare
J. A. Vorpahl 47, 147
- Preflare X-Ray Morphology of Active Regions Observed with the AS&E Telescope on Skylab
S. W. Kahler and B. J. Buratti 47, 157
- Implications for Flare Build-Up and Heating from Observations Made by OSO-7 (*Extended abstract*)
W. M. Neupert 47, 217
- Non-Thermal Processes during the 'Build-Up' Phase of Solar Flares and in Absence of Flares
S. R. Kane and M. Pick 47, 293
- Hard X-Ray and Microwave Observations of a Sympathetic Flare (*Title only*)
K. Ohki 47, 305
- High Time Resolution Analysis of Solar Hard X-Ray Flares Observed on Board the ESRO TD-1A Satellite
Peter Hoyng, John C. Brown, and H. Frank van Beek 48, 197
- Problems in Relating the Optical and X-Ray Emissions from a Solar Flare
J.-René Roy 48, 265
- The Spatial Structure of a Solar Flare in Soft X-Rays and Centimetric Wavelengths
R. Pallavicini and G. S. Vaiana 49, 297
- Non-Thermal Processes in Large Solar Flares
R. P. Lin and H. S. Hudson 50, 153
- The Quantitative Properties of Three Soft X-Ray Flare Kernels Observed with the AS&E X-Ray Telescope on Skylab
S. W. Kahler, R. D. Petrasso, and S. R. Kane 50, 179
- A Comparison of Positions and Sizes of Sources of Centimeter and X-Ray Bursts
M. R. Kundu, C. E. Alissandrakis, and S. W. Kahler 50, 429
- Directivity of Non-Thermal X-Ray Emission from Solar Flares
O. M. Kovrizhnikh, I. A. Savenko, and L. M. Chupova 50, 447
- A Hard X-Ray Observation of a Solar Flare with 100 ms Time Resolution
K. Hurley and G. Duprat 52, 107

Observations of Limb Flares with a Soft X-Ray Telescope

Edward G. Gibson 53, 123

Effects of Soft X-Ray Flux on the Lower Solar Atmosphere in Flares

J. C. Henoux and Y. Nakagawa 53, 279

Comparison between Some H α and X-Ray Flares

R. Falciani, M. Giordano, M. Rigutti, and G. Roberti 54, 169

Radio and Soft X-Ray Evidence for Dense Non-Potential Magnetic Flux Tubes in the Solar Corona

R. T. Stewart and Joan Vorpahl 55, 111

Early Evolution of an X-Ray Emitting Solar Active Region

C. J. Wolfson, L. W. Acton, J. W. Leibacher, and D. T. Roethig 55, 181

Analysis of X-Ray Observations of the 15 June 1973 Flare in Active Region NOAA 131

K. R. Krall, E. J. Reichmann, R. M. Wilson, W. Henze, Jr., and J. B. Smith, Jr. 56, 383 *Errata* 57, 485

The Inter-Relationship of Hard X-Ray and EUV Bursts during Solar Flares

A. Gordon Emslie, John C. Brown, and Richard F. Donnelly 57, 175

H α , Hard X-Ray, and Microwave Emissions in the Impulsive Phase of Solar Flares

Donald F. Neidig, Jr. 57, 385

Prompt Solar Proton Events and Coronal Mass Ejections

S. W. Kahler, E. Hildner, and M. A. I. Van Hollebeke 57, 429

Studies of Solar Flares Using Optical, X-Ray and Radio Data

H. Zirin 58, 95

Properties of Elementary Flare Bursts

Cornelis de Jager and Gert de Jonge 58, 127

The Dependence of Solar Flare Energetics on Flare Volumes

S. W. Kahler 59, 87

A Loop Prominence System Observed on May 24, 1972

Muammer Dizer 59, 357

Does the Emission Measure Decrease during the Start of a Soft X-Ray Flare?

C. J. Wolfson, L. W. Acton, and D. W. Datlowe 59, 373

The Pre-Onset Morphology of the 5 September 1973 Flare

E. J. Schmahl, C. V. Solodyna, J. B. Smith, Jr., and C. C. Cheng 60, 323

Soft X-Ray Emission and Chromospheric Flares

Marcos E. Machado 60, 341

On the Nonthermal Excitation and Polarization of X-Ray Lines during Small Flares

Eberhard Haug 61, 129

Study of the Post-Flare Loops on 29 July 1973. I: Dynamics of the X-Ray Loops

J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. D. Petrasso, and Z. Švestka 62, 123

Study of the Post-Flare Loops on 29 July 1973. II: Physical Parameters in the X-Ray Loops

R. D. Petrasso, J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. Krogstad, F. H. Seguin, and Z. Švestka 62, 133

Preflare Characteristics of Active Regions Observed in Soft X-Rays

S. W. Kahler 62, 347

A Two-Temperature Model for the Flare of 5 September, 1973

Irene R. Little-Marenin, J. K. Silk, and A. S. Krieger 65, 299

X-Rays, Filament Activity and Flare Prediction

J. M. Mosher and L. W. Acton 66, 105

The Flare of September 7, 1973: A Typical Example of a Newly Recognized Class of Solar Transients

R. Pallavicini and G. S. Vaiana 67, 127

OSO-8 Observations of the Impulsive Phase of Solar Flares in the Transition-Zone and Corona

Bruce W. Lites, E. C. Bruner, Jr., and C. J. Wolfson 69, 373

X-Ray and H α Observations of a Filament-Disappearance Flare: An Empirical Analysis of the Magnetic Field Configuration

S. W. Kahler, D. F. Webb, and R. L. Moore 70, 335

Observations of an Unusual Pair of Homologous Flares on March 17, 1970

Edward W. Cliver and Fred L. Wefer 71, 39

- The Development of X-Ray Flare Onsets near Active Region Filaments
S. W. Kahler **71**, 337
- Simultaneous Measurements of EUV and Soft X-Ray Solar Flare Emission
D. M. Horan and R. W. Kreplin **74**, 265
- Second-Stage Acceleration in a Limb-Occulted Flare
H. S. Hudson, R. P. Lin, and R. T. Stewart **75**, 245
- Soft X-Ray Emission from Active Regions Shortly before Solar Flares
C. J. Wolfson **76**, 377
- Spatial and Temporal Evolution of Soft and Hard X-Ray Emission in a Solar Flare
Marcos E. Machado, André Duijveman, and Brian R. Dennis **79**, 85
- X-Ray Imaging of Three Flares during the Impulsive Phase
André Duijveman, Peter Hoyng, and Marcos E. Machado **81**, 137
- X-Ray and Radio Emissions in the Early Stages of Solar Flares
A. O. Benz, C. H. Barrow, B. R. Dennis, M. Pick, A. Raoult, and G. Simnett **83**, 267
- The Queens' Flare: Its Structure and Development; Precursors, Pre-Flare Brightenings, and Aftermaths
Cornelius de Jager, Marcos E. Machado, Aert Schadee, Keith T. Strong, Zdeněk Švestka, Bruce E. Woodgate, and W. van Tend **84**, 205
- The Structure and Evolution of a Solar Flare as Observed in 3.5-30 keV X-Rays
R. A. Harrison, G. M. Simnett, P. Hoyng, H. LaFleur, and H. F. Van Beek **84**, 237
- The Flares of April 1980. A Case for Flares Caused by Interacting Field Structures
Marcos E. Machado, Boris V. Somov, Marta G. Rovira, and Cornelis de Jager **85**, 157 *Corrigendum*
89, 233
- Direct Measurements of the Gradual Extreme Ultraviolet Emission from Large Solar Flares
D. M. Horan, R. W. Kreplin, and K. P. Dere **85**, 303
- Development of Flare Morphology in X-Rays, and the Flare Scenario
C. de Jager **86**, 21
- Solar Flare X-Ray Spectra from the P78-1 Spacecraft
G. A. Doschek **86**, 49
- Observations of a Compact Flare on 1981, September 7, in H α , X-Ray, and Microwave Radiations (*Extended Abstract*)
Mitsuo Kanno, Hiroki Kurokawa, and the HINOTORI Group **86**, 193
- Positional Measurements on the Eruptive Prominence of 27 April and Comparison with the X-Ray Sources
Li Su-Cuan and Cao Tian-Jun **86**, 197
- Hard X-Ray Dynamic Spectra Observed by HINOTORI
N. Nitta, T. Takakura, K. Ohki, and M. Yoshimori **86**, 241
- A Flare Model Deduced from HINOTORI and Millimeterwave Interferometer Observations
Kin-Aki Kawabata, Hideo Ogawa, and Ikuro Suzuki **86**, 247
- Imaging of Impulsive Solar Flare Phenomena
A. Duijveman and P. Hoyng **86**, 279
- Temperature Structure of Spatially Resolved Hard X-Ray Flares
G. M. Simnett **86**, 289
- General Aspects of Hard X-Ray Flares Observed by HINOTORI: Gradual Burst and Impulsive Burst
K. Ohki, T. Takakura, S. Tsuneta, and N. Nitta **86**, 301
- Vertical Structure of Hard X-Ray Flares
S. Tsuneta, T. Takakura, N. Nitta, K. Ohki, K. Makishima, T. Murakami, M. Oda, and Y. Ogawara **86**, 313
- Location of X-Ray and Microwave Sources
H. Hudson **86**, 444
- Radio, X-Ray, and Optical Observations of the Flare of June 13, 1980, at 6^h22^m UT
A. Kattenberg, M. Allaart, C. de Jager, A. Schadee, J. Schrijver, K. Shibasaki, Z. Švestka, and W. van Tend **88**, 315
- Energetics of a Compact Flare
Marcos E. Machado **89**, 133
- Properties of Flares Observed in the Mg I b₂ Line at 5172 Å
J. K. Lawrence, G. A. Chapman, and A. D. Herzog **89**, 341
- X-Ray, H α , and Radio Observations of the Two-Ribbon Flare of 16 May, 1981
F. Fárnik, J. Kaastra, B. Kálmán, M. Karlický, C. Slottje, and B. Valníček **89**, 355

Gradual Hard X-Ray Events and Second Phase Particle Acceleration

S. W. Kahler 90, 133

 $H\alpha$ and Hard X-Ray Development in Two-Ribbon Flares

B. N. Dwivedi, H. S. Hudson, S. R. Kane, and Z. Švestka 90, 331

He I 10830 Observations of the 3N/M4.0 Flare of 4 September, 1982

Karen L. Harvey and Frank Recely 91, 127

Impulsive Phase Heating and a Coronal Explosion in a Solar Flare

Cornelis de Jager and André Boelee 92, 227

Spatial Development of X-Ray Emission during the Impulsive Phase of a Solar Flare

Cornelis de Jager, André Boelee, and David M. Rust 92, 245

Analysis of the Magnetic Field Configuration of a Filament-Associated Flare from X-Ray, UV, and Optical Observations

Chung-Chieh Cheng and R. Pallavicini 93, 337

Hard X-Ray Imaging of a Solar Gradual Hard X-Ray Burst on April 1, 1981

T. Takakura, K. Ohki, T. Sakurai, J. L. Wang, J. Y. Xuan, S. C. Li, and R. Y. Zhao 94, 359

Magnetic Field Structures of Hard X-Ray Flares Observed by Hinotori Spacecraft

Takashi Sakurai 95, 311

Initial Phase of Chromospheric Evaporation in a Solar Flare

E. Antonucci, B. R. Dennis, A. H. Gabriel, and G. M. Simnett 96, 129

Coronal Explosions

Cornelis de Jager 96, 143

Time Delay between $H\alpha$ and Hard X-Ray Emissions during Impulsive Solar Flares

V. K. Verma and M. C. Pande 97, 107

 $H\alpha$ Manifestation of an Energetic Limb Flare, June 21, 1980

Marie K. McCabe 98, 127

Energetics of a Double Flare on November 8, 1980

J. G. Doyle, P. B. Byrne, B. R. Dennis, A. G. Emslie, A. I. Poland, and G. M. Simnett 98, 141

An Evidence of Flare Energy Buildup and Release Related to Magnetic Shear and Reconnection

Marcos E. Machado 99, 159

Multiwavelength Analysis of a Well Observed Flare from SMM

P. MacNeice, R. Pallavicini, H. E. Mason, G. M. Simnett, E. Antonucci, R. A. Shine, D. M. Rust, C. Jordan, and B. R. Dennis 99, 167

Evidence for Beamed Electrons in a Limb X-Ray Flare Observed by HXIS

Eberhard Haug and Gerhard Elwert 99, 219

Quantitative Analysis of Hard X-Ray 'Footpoint' Flares Observed by the Solar Maximum Mission

A. L. MacKinnon, J. C. Brown, and J. Hayward 99, 231

The Super-Hot Thermal Component in the Decay Phase of Solar Flares

Hua-An Lin, R. P. Lin, and S. R. Kane 99, 263

21 May 1980 Flare Review (*Invited Review Paper*)

Cornelis de Jager and Zdeněk Švestka 100, 435

Solar Hard X-Ray Bursts (*Invited Review Paper*)

Brian R. Dennis 100, 465

X-Ray Bursts, Association with Non-Flare Phenomena (*see X-Ray Bursts*)X-Ray Bursts, Deka-keV (*see X-Ray Bursts*)

X-Ray Bursts, Hard

The Hard Solar X-Ray Burst of 18 September 1963

C. de Jager 2, 327

Note on Solar Hard X-Ray Bursts

C. de Jager 2, 347

Theory of Deka-keV Solar X-Ray Bursts

R. Snijders 4, 432

Interpretation of Time Characteristics of Solar X-Ray Bursts Referring to Associated Microwave Bursts

Tatsuo Takakura 6, 133

Solar and Cosmic X-Rays Above 7.7 keV

Hugh S. Hudson, Laurence E. Peterson, and Daniel A. Schwartz 6, 205

Comment on the X-Ray Event of July 7, 1966

R. Snijders 6, 290

Observations of Energetic X-Rays and Solar Cosmic Rays Associated with the 23 May 1967 Solar Flare Event

S. R. Kane and J. R. Winckler 6, 304

Directivity of Solar Hard X-Ray Bursts

Ken-Ichiro Ohki 7, 260

Microwave and Hard X-Ray Bursts from Solar Flares

Stephen S. Holt and Reuven Ramaty 8, 119

Longitudinal Distribution of X-Bremsstrahlung on the Solar Disc

Štefan Pintér 8, 142

Homology of X-Ray Bursts

Š. Pintér 8, 149

De-Occultation X-Ray Events of 2 December, 1967

Harold Zirin, William Ingham, Hugh Hudson, and David McKenzie 9, 269

Some Relationships between Solar X-Ray Bursts and SPA's Produced on VLF Propagation in the Lower Ionosphere

Pierre Kaufmann and M. H. Paes de Barros 9, 478

Identification of the Hard X-Ray Pulse in the Flare of September 11-12, 1968

J. Vorpahl and H. Zirin 11, 285

The Phase of Particle Acceleration in the Flare Development

Z. Švestka 13, 471

Re-Interpretation of OSO-III Scintillation Counter Measurements of Hard Solar X-Ray Spectra

S. R. Kane and H. S. Hudson 14, 414

Characteristics of Soft Solar X-Ray Bursts

Jerry F. Drake 16, 152

The Relation of Energetic Solar X-Rays ($h\nu > 60$ keV) and High Frequency Microwaves Deduced from the Periodic Bursts of August 8, 1968 Flare

George K. Parks and John R. Winckler 16, 186

The Location and Size of a Solar Hard X-Ray Burst on September 27, 1969

T. Takakura, K. Ohki, N. Shibuya, M. Fujii, M. Matsuoka, S. Miyamoto, J. Nishimura, M. Oda, Y. Ogawara, and S. Ota 16, 454

The Origin of Flare Produced Hard X-Rays

R. W. Milkey 16, 465

The Deduction of Energy Spectra of Non-Thermal Electrons in Flares from the Observed Dynamic Spectra of Hard X-Ray Bursts

John C. Brown 18, 489

Magnetic Fields, Bremsstrahlung and Synchrotron Emission in the Flare of 24 October 1969

H. Zirin, Gail Pruss, and Joan Vorpahl 19, 463

Spectral Features of Large Type IV Bursts and Interrelation to Solar-Terrestrial Phenomena

S. T. Akinyan, E. I. Mogilevsky, A. Böhme, and A. Krüger 20, 112

Extreme Ultraviolet Flashes of Solar Flares Observed via Sudden Frequency Deviations: Experimental Results

Richard F. Donnelly 20, 188

Anisotropy of Solar Hard X-Radiation during Flares

Gerhard Elwert and Eberhard Haug 20, 413

Location of the Electron Acceleration Region in Solar Flares

S. R. Kane and R. P. Lin 23, 457

Observations and Comments for the Solar Event of 24 October, 1969

Arthur E. Covington 24, 405

New Measurements of the Polarization of X-Ray Solar Flares

I. P. Tindo, V. D. Ivanov, S. L. Mandel'stam, and A. I. Shuryghin 24, 429

The Decay Characteristics of Models of Solar Hard X-Ray Bursts

John C. Brown 25, 158

The Impulsive X-Ray Burst of October 10, 1970

S. R. Kane, S. W. Kahler, and J. D. Kurfess 25, 418

Polarization of Hard X-Rays from Solar Flares

Eberhard Haug 25, 425

- X-Radiation ($E > 10$ keV), H α and Microwave Emission during the Impulsive Phase of Solar Flares
Joan A. Vorpahl 26, 397
- The Directivity and Polarization of Thick Target X-Ray Bremsstrahlung from Solar Flares
John C. Brown 26, 441
- Preliminary Interpretation of the Polarization Measurements Performed in 'Intercosmos-4' during Three X-Ray Solar Flares
I. P. Tindo, V. D. Ivanov, B. Valníček, and M. A. Livshits 27, 426
- A Simulation of the Directivity Effect to be Expected in Hard X-Ray Flares
Michael L. Shaw 27, 436
- Thick Target X-Ray Bremsstrahlung from Partially Ionized Targets in Solar Flares
John C. Brown 28, 151
- Spectral Development of a Solar X-Ray Burst Observed on OSO-7
D. L. McKenzie, D. W. Datlowe, and L. E. Peterson 28, 175
- The Solar Albedo of Hard X-Ray Flares
N. Santangelo, H. Horstman, and E. Horstman-Moretti 29, 143
- 19-20 May 1969, an Example of Type III Emission during the Impulsive Phase of Flares
Joan Vorpahl 29, 447
- Interferometer Observations of a Radio Burst at 8.6 mm Associated with a Polarized Hard X-Ray Event
K. Kawabata, Y. Sofue, H. Ogawa, and T. Omodaka 31, 469
- Temporal Fine Structure of X-Rays from Trapped Electrons in Solar Flares
John C. Brown 32, 227
- Hard Solar Flare X-Ray Bursts on 8 December 1970
K. A. Anderson and W. A. Mahoney 35, 419
- On Anisotropy of Solar Hard X-Ray Emission
G. Pizzichini, A. Spizzichino, and G. R. Vespignani 35, 431
- OSO-7 Observations of Solar X-Rays in the Energy Range 10-100 keV
D. W. Datlowe, M. J. Elcan, and H. S. Hudson 39, 155
- Analysis of the August 7, 1972 White Light Flare: Light Curves and Correlation with Hard X-Rays
David M. Rust and Frank Hegwer 40, 141
- X-Ray Bursts from Solar Flares behind the Limb
J.-René Roy and Dayton W. Datlowe 40, 165
- Hard X-Ray Bursts from Flares behind the Solar Limb
David L. McKenzie 40, 183
- The Height Distribution of Flare Hard X-Rays in Thick and Thin Target Models
John C. Brown and A. N. McClymont 41, 135
- On the Relationships between sfc (crochet) and Solar X-Ray and Microwave Bursts
J. Hanumath Sastri and B. Suryanaryan Murthy 41, 477
- An Impulsive Solar X-Ray Burst in the Energy Range 90-400 keV
Y. Fukada, S. Hayakawa, I. Kasahara, F. Makino, I. Suzuki, Y. Tanaka, and B. V. Sreekantan 42, 441
- Contribution of Electron-Electron Bremsstrahlung to Solar Hard X-Radiation during Flares
Eberhard Haug 45, 453
- Non-Thermal Processes during the 'Build-Up' Phase of Solar Flares and in Absence of Flares
S. R. Kane and M. Pick 47, 293
- High Time Resolution Analysis of Solar Hard X-Ray Flares Observed on Board the ESRO TD-1A Satellite
Peter Hoyng, John C. Brown, and H. Frank van Beek 48, 197
- Photoelectric Absorption of Hard X-Rays in the Solar Atmosphere
Eberhard Haug 48, 261
- Problems in Relating the Optical and X-Ray Emissions from a Solar Flare
J.-René Roy 48, 265
- Continuous Injection Model for Hard X-Ray Correlated Microwave Bursts
Christian Mätzler 49, 117 *Erratum 53, 197*
- Oscillations of Coronal Electron Traps Inferred from Hard X-Ray Data
J. C. Brown and A. N. McClymont 49, 329
- Gamma-Ray and Microwave Evidence for Two Phases of Acceleration in Solar Flares
T. Bai and R. Ramaty 49, 343

- Comparison of Flare Bremsstrahlung Resulting from Energetic Thermal and Nonthermal Electrons
J. Davis and J. E. Rogerson **51**, 185
- A Hard X-Ray Observation of a Solar Flare with 100 ms Time Resolution
K. Hurley and G. Duprat **52**, 107
- Collective Plasma Effects and the Electron Number Problem in Solar Hard X-Ray Bursts
J. C. Brown and D. B. Melrose **52**, 117
- A Two-Component Model of Impulsive Microwave Burst Emission Consistent with Soft and Hard X-Rays
A. Böhme, F. Fürstenberg, J. Hildebrandt, O. Saal, A. Krüger, P. Hoyng, and G. A. Stevens **53**, 139
- The Inter-Relationship of Hard X-Ray and EUV Bursts during Solar Flares
A. Gordon Emslie, John C. Brown, and Richard F. Donnelly **57**, 175
- Pulsations in Solar Hard X-Ray Bursts
Belinda Lipa **57**, 191
- H α , Hard X-Ray, and Microwave Emissions in the Impulsive Phase of Solar Flares
Donald F. Neidig, Jr. **57**, 385
- Studies of Solar Flares Using Optical, X-Ray and Radio Data
H. Zirin **58**, 95
- Relationship between Type III-V Radio and Hard X-Ray Bursts
R. T. Stewart **58**, 121
- Properties of Elementary Flare Bursts
Cornelis de Jager and Gert de Jonge **58**, 127
- Diagnostics of Solar Flare Hard X-Ray Sources
Peter Hoyng, Joshua W. Knight, and Daniel S. Spicer **58**, 139 *Errata 59, 407*
- Determination of the Source Height and Anisotropy of Solar Hard X-Rays by Measurements with Good Time Resolution
Taeil Bai **59**, 141
- Indirect Estimation of Energy Disposition by Non-Thermal Electrons in Solar Flares
H. S. Hudson, R. C. Canfield, and S. R. Kane **60**, 137
- Application of the Trap-Plus-Precipitation Hard X-Ray Burst Model to the Flare of August 4, 1972
A. Gordon Emslie, Malcolm G. McGaig, and John C. Brown **63**, 175
- On the Seats of Elementary Flare Bursts
Cornelis de Jager **64**, 135
- First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares
Dean F. Smith **66**, 135
- Dynamic Spectral Characteristics of Thermal Models for Solar Hard X-Ray Bursts
John C. Brown, Ian J. D. Craig, and Judith T. Karpen **67**, 143
- An Interpretation of the Decay Characteristics of Solar Hard X-Ray Bursts
Kenji Kawamura, Toshihiro Omodaká, and Ikuro Suzuki **71**, 55
- Radio and X-Ray Observations of a Multiple Impulsive Solar Burst with High Time Resolution
Takeo Kosugi **71**, 91
- Height Structure of Thermal Hard X-Ray Sources on the Sun
John C. Brown and John Hayward **73**, 121
- Comment on 'First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares'
Gerard Van Hoven **73**, 205
- Second-Stage Acceleration in a Limb-Occulted Flare
H. S. Hudson, R. P. Lin, and R. T. Stewart **75**, 245
- The Role of Betatron Acceleration in Complex Solar Bursts
Judith T. Karpen **77**, 205
- Spatial and Temporal Evolution of Soft and Hard X-Ray Emission in a Solar Flare
Marcos E. Machado, André Duijveman, and Brian R. Dennis **79**, 85
- Positional Characteristics of Meter-Decameter Wavelength Bursts Associated with Hard X-Ray Bursts
M. R. Kundu, T. E. Gergely, and S. R. Kane **79**, 107
- Microwave Emission from Hot X-Ray Kernels in Solar Flares
V. V. Zheleznyakov and Yu. V. Tikhomirov **81**, 121
- X-Ray Imaging of Three Flares during the Impulsive Phase
André Duijveman, Peter Hoyng, and Marcos E. Machado **81**, 137

- Hydrodynamic Response of the Solar Chromosphere to an Elementary Flare Burst. II: Thermal Model
B. V. Somov, B. J. Sermulina, and A. R. Spektor **81**, 281
- X-Ray and Radio Emissions in the Early Stages of Solar Flares
A. O. Benz, C. H. Barrow, B. R. Dennis, M. Pick, A. Raoult, and G. Simnett **83**, 267
- The Structure and Evolution of a Solar Flare as Observed in 3.5-30 keV X-Rays
R. A. Harrison, G. M. Simnett, P. Hoyng, H. LaFleur, and H. F. Van Beek **84**, 237
- Chromospheric Heating by Electron and Proton Bombardment in the Solar Flare of June 7, 1980
A. Gordon Emslie **84**, 263
- Association between Gradual Hard X-Ray Emission and Metric Continua during Large Flares
L. Klein, K. Anderson, M. Pick, G. Trotter, N. Vilmer, and S. Kane **84**, 295
- Microwave and Hard X-Ray Observations of a Solar Flare with a Time Resolution Better than 100 ms
P. Kaufmann, F. M. Strauss, J. E. R. Costa, B. R. Dennis, A. Kiplinger, K. J. Frost, and L. E. Orwig **84**, 311
- Direct Measurements of the Gradual Extreme Ultraviolet Emission from Large Solar Flares
D. M. Horan, R. W. Kreplin, and K. P. Dere **85**, 303
- Observation of Chromospheric Evaporation during the Solar Maximum Mission
E. Antonucci and B. R. Dennis **86**, 67
- Late Phase Gradual Enhancements in Microwaves and Hard X-Rays of the 6 November, 1980 Flare
K. Kai, H. Nakajima, T. Kosugi, and S. R. Kane **86**, 231
- Fast Transients in Hard X-Ray Solar Flares (*Abstract*)
A. L. Kiplinger, B. R. Dennis, A. G. Emslie, K. J. Frost, and L. E. Orwig **86**, 239
- Hard X-Ray Dynamic Spectra Observed by HINOTORI
N. Nitta, T. Takakura, K. Ohki, and M. Yoshimori **86**, 241
- Relation between Hard X-Ray Spectra and Electron Energy Spectra
Ikuro Suzuki and Kin-Aki Kawabata **86**, 253
- Pre- and Post-Flare X-Ray Variations in Active Regions
Zdeněk Švestka and Aert Schadee **86**, 267
- Imaging of Impulsive Solar Flare Phenomena
A. Duijveman and P. Hoyng **86**, 279
- Temperature Structure of Spatially Resolved Hard X-Ray Flares
G. M. Simnett **86**, 289
- General Aspects of Hard X-Ray Flares Observed by HINOTORI: Gradual Burst and Impulsive Burst
K. Ohki, T. Takakura, S. Tsuneta, and N. Nitta **86**, 301
- Vertical Structure of Hard X-Ray Flares
S. Tsuneta, T. Takakura, N. Nitta, K. Ohki, K. Makishima, T. Murakami, M. Oda, and Y. Ogawara **86**, 313
- Hard X-Ray Images of Impulsive Bursts
T. Takakura, K. Ohki, S. Tsuneta, and N. Nitta **86**, 323
- Time Variations of Hard X-Ray Bursts Observed with the Solar Hard X-Ray Telescope aboard HINOTORI
Takeo Kosugi and Saku Tsuneta **86**, 333
- Computed Magnetic Field Structure of the Flares Observed by HINOTORI Hard X-Ray Telescope
Takashi Sakurai **86**, 339
- Spatial Structure of High Energy Photon Sources
S. R. Kane **86**, 355
- Observations of Fine Time Structures in Solar Flare Hard X-Ray Bursts
K. Hurley, M. Niel, R. Talon, I. V. Estulin, and V. Ch. Dolidze **86**, 367
- Characteristics of Gamma-Ray Line Flares as Observed in Hard X-Ray Emissions and Other Phenomena
T. Bai, B. R. Dennis, A. L. Kiplinger, L. E. Orwig, and K. J. Frost **86**, 409
- Narrow-Band Decimeter Bursts and X-Ray Emissions - Possible Evidence of Negative Absorption or Maser Effect
Shinzo Enome **86**, 421
- Location of X-Ray and Microwave Sources
H. Hudson **86**, 444
- Correlation of Hard X-Ray and Type III Bursts in Solar Flares
Vahe Petrosian and John Leach **87**, 165

- A Comparison of the Thick-Target Model with Stereo Data on the Height Structure of Solar Hard X-Ray Bursts
J. C. Brown, V. A. Carlaw, D. Cromwell, and S. R. Kane 88, 281
- Radio, X-Ray, and Optical Observations of the Flare of June 13, 1980, at 6^h22^m UT
A. Kattenberg, M. Allaart, C. de Jager, A. Schadee, J. Schrijver, K. Shibasaki, Z. Švestka, and W. van Tend 88, 315
- Energetics of a Compact Flare
Marcos E. Machado 89, 133
- Long Time Delay between the Peaks of Intense Solar Hard X-Ray and Microwave Bursts
T. Takakura, S. S. Degaonkar, K. Ohki, T. Kosugi, and S. Enome 89, 379
- Observation of the Impulsive Phase of a Simple Flare
E. Tandberg-Hanssen, P. Kaufmann, E. J. Reichmann, D. L. Teuber, R. L. Moore, L. E. Orwig, and H. Zirin 90, 41
- Time Delays in Large and Small Loop Thermal Models for Hard X-Ray Bursts
Dean F. Smith and Lorant A. Muth 90, 83
- Gradual Hard X-Ray Events and Second Phase Particle Acceleration
S. W. Kahler 90, 133
- H α and Hard X-Ray Development in Two-Ribbon Flares
B. N. Dwivedi, H. S. Hudson, S. R. Kane, and Z. Švestka 90, 331
- Decimetric Type III Radio Bursts and Associated Hard X-Ray Spikes
B. R. Dennis, A. O. Benz, M. Ranieri, and G. M. Simnett 90, 383
- Steady Models for the Hard X-Ray Loops in the Solar Corona
T. Takakura 91, 311
- Comparisons of Solar Flare X-Ray Producing and Escaping Electrons from ~ 2 to 100 keV
Lian-De Pan, R. P. Lin, and S. R. Kane 91, 345
- Multiple Energetic Injections in a Strong Spike-Like Solar Burst
P. Kaufmann, E. Correia, J. E. R. Costa, B. R. Dennis, G. J. Hurford, and J. C. Brown 91, 359
- Impulsive Phase Heating and a Coronal Explosion in a Solar Flare
Cornelis de Jager and André Boelee 92, 227
- Spatial Development of X-Ray Emission during the Impulsive Phase of a Solar Flare
Cornelis de Jager, André Boelee, and David M. Rust 92, 245
- Flare Loops Heated by Thermal Conduction
David M. Rust and Boris V. Somov 93, 95
- Synchrotron or Plasma Emission in Solar Microwave Flares?
A. O. Benz 94, 161
- Timing Analysis of Hard X-Ray Emission and 22 GHz Flux and Polarization in a Solar Burst
J. E. R. Costa, P. Kaufmann, and T. Takakura 94, 369
- Magnetic Field Structures of Hard X-Ray Flares Observed by Hinotori Spacecraft
Takashi Sakurai 95, 311
- Initial Phase of Chromospheric Evaporation in a Solar Flare
E. Antonucci, B. R. Dennis, A. H. Gabriel, and G. M. Simnett 96, 129
- Coronal Explosions
Cornelis de Jager 96, 143
- The Relation between Hard X-Ray and Transition-Region Line Emission in Solar Flares
John T. Mariska and A. I. Poland 96, 317
- The Interpretation of Hard X-Ray Polarization Measurements in Solar Flares
John Leach, A. Gordon Emslie, and Vahé Petrosian 96, 331
- Great Microwave Bursts and Hard X-Rays from Solar Flares
Herbert J. Wiehl, David A. Batchelor, Carol Jo Crannell, Brian R. Dennis, Phillip N. Price, and Andreas Magun 96, 339
- Hard X-Ray Bremsstrahlung Produced by Electrons Escaping a High-Temperature Thermal Source in a Solar Flare
Luidi Nocera, Yu. I. Skrynnikov and Boris V. Somov 97, 81
- Time Delay between H α and Hard X-Ray Emissions during Impulsive Solar Flares
V. K. Verma and M. C. Pande 97, 107
- Hard X-ray Images of Possible Reconnection in the Flare of 21 May, 1980
Zdeněk Švestka and Giannina Poletto 97, 113

Correlation of Solar Decimetric Radio Bursts with X-Ray Flares

M. J. Aschwanden, H. J. Wiehl, A. O. Benz, and S. R. Kane 97, 159

H α Manifestation of an Energetic Limb Flare, June 21, 1980

Marie K. McCabe 98, 127

Energetics of a Double Flare on November 8, 1980

J. G. Doyle, P. B. Byrne, B. R. Dennis, A. G. Emslie, A. I. Poland, and G. M. Simnett 98, 141

Kernel Heating and Ablation in the Impulsive Phase of Two Solar Flares

Cornelis de Jager 98, 267

Temporal Behaviour of the Thermal Model of Hard X-Ray Bursts

Alexander L. MacKinnon 98, 293

Multiwavelength Analysis of a Well Observed Flare from SMM

P. MacNeice, R. Pallavicini, H. E. Mason, G. M. Simnett, E. Antonucci, R. A. Shine, D. M. Rust, C. Jordan, and B. R. Dennis 99, 167

Hard X-Ray Imaging Evidence of Nonthermal and Thermal Burst Components

Marcos E. Machado, Marta G. Rovira, and Cora V. Sneibrun 99, 189

Evidence for Beamed Electrons in a Limb X-Ray Flare Observed by HXIS

Eberhard Haug and Gerhard Elwert 99, 219

Quantitative Analysis of Hard X-Ray 'Footpoint' Flares Observed by the Solar Maximum Mission

A. L. MacKinnon, J. C. Brown, and J. Hayward 99, 231

Longitudinal Distribution of the Hard X-Ray Bursts on the Sun

V. K. Verma and M. C. Pande 99, 285

Solar Hard X-Ray Bursts (*Invited Review Paper*)

Brian R. Dennis 100, 465

X-Ray Bursts, Non-Thermal (*see X-Ray Bursts*)**X-Ray Bursts, Soft**

Theory of Deka-keV Solar X-Ray Bursts

R. Snijders 4, 432

The X-Ray and Extreme Ultraviolet Radiation of the August 28, 1966 Proton Flare as Deduced from Sudden Ionospheric Disturbance Data

R. F. Donnelly 5, 123

Observation of the Solar Soft X-Ray Component: Study of Its Relation to Transient and Slowly-Varying Phenomena Observed at Other Wavelengths

Richard G. Teske 6, 193

Longitudinal Distribution of X-Bremsstrahlung on the Solar Disc

Štefan Pintér 8, 142

Homology of X-Ray Bursts

Š. Pintér 8, 149

Solar Soft X-Rays and Solar Activity. I: Relationships between Reported Flares and Radio Bursts, and X-Ray Bursts

Richard G. Teske and Roger J. Thomas 8, 348

Flare-Time Sudden Enhancements of Low Frequency Field Strength and Associated Meter Wave Solar Radio Bursts

S. K. Alurkar and R. V. Bhonsle 9, 198

Some Relationships between Solar X-Ray Bursts and SPA's Produced on VLF Propagation in the Lower Ionosphere

Pierre Kaufmann and M. H. Paes de Barros 9, 478

Solar Soft X-Ray Flare Spectra from OSO-4

J. F. Meekins, G. A. Doschek, H. Friedman, T. A. Chubb, and R. W. Kreplin 13, 198

Recombination Edges Observed in Solar Soft X-Ray Flare Spectra

J. F. Meekins and G. A. Doschek 13, 213

Soft X-Ray Enhancement during Flares

S. D. Deshpande and J. N. Tandon 13, 462

Solar X-Ray Bursts and Their Relation to H α and Microwave Emissions

J. R. Harries 13, 467

- Strong Coronal Shocks and 'Thermal' Solar X-Ray Bursts
Charles L. Hyder **14**, 196
- The Observation of 3.3-mm Bursts and Their Correlation with Soft X-Ray Bursts
F. I. Shimabukuro **15**, 424
- Characteristics of Soft Solar X-Ray Bursts
Jerry F. Drake **16**, 152
- Solar Soft X-Rays and Solar Activity. II: Soft X-Ray Emission during Solar Flares
Roger J. Thomas and Richard G. Teske **16**, 431
- Soft Solar X-Rays and Solar Activity. III: Loop Prominences with Soft X-Ray Emission
Richard G. Teske **17**, 76
- Soft Solar X-Rays and Solar Activity. IV: Some Evidence for the Altitude of X-Ray Source Volumes in Solar Flares
Richard G. Teske **17**, 181
- Soft X-Ray Emitting Regions in the Solar Corona
M. Landini and B. C. Monsignori Fossi **17**, 379
- Soft Solar X-Rays and Solar Activity. V: Relation of the Course of Soft X-Ray Fluctuations to the Course of Solar Activity, 9 March, 1967-18 May, 1968
Richard G. Teske **19**, 356
- Soft Solar X-Rays and Solar Activity. VI: Optical Identification of Activity Associated with X-Ray Background Fluctuations
Richard G. Teske **21**, 146
- Soft X-Ray and Microwave Observations of Hot Regions in Solar Flares
H. S. Hudson and K. Ohki **23**, 155
- On the Temperature and Emission Measure of Thermal Radio Bursts
F. I. Shimabukuro **23**, 169
- Observations and Comments for the Solar Event of 24 October, 1969
Arthur E. Covington **24**, 405
- Solar Soft X-Rays and Solar Activity. VII: Observational Assessment of the Role of the Type III Acceleration Mechanism in Establishment of the Soft X-Ray Source Volume
Richard G. Teske and Roger J. Thomas **24**, 434
- Time Variations in the X-Ray Emission of Solar Active Regions
J. H. Parkinson **28**, 137
- Two Component Temperature Analysis of OSO-5 X-Ray Flare Data
J. R. H. Herring and I. J. D. Craig **28**, 169
- Spectral Development of a Solar X-Ray Burst Observed on OSO-7
D. L. McKenzie, D. W. Datlowe, and L. E. Peterson **28**, 175
- Characteristics of Electron and High-Energy Proton Flares
Emmanuel T. Sarris and Stanley D. Shawhan **28**, 519
- Continuous Energy Injection at Numerous Bright Points during Soft X-Ray Flare Enhancement
W. M. Glencross **29**, 429
- The Thermal Nature of Soft X-Ray Flares
I. J. D. Craig **31**, 197
- Short Duration Solar Microwave Bursts and Associated Soft X-Ray Emission
Steven R. Spangler and Stanley D. Shawhan **37**, 189
- Observations of Very Small Soft X-Ray Flares
W. M. Glencross, E. B. Dorling, and J. R. H. Herring **38**, 183
- Acceleration of Electrons in Absence of Detectable Optical Flares Deduced from Type III Radio Bursts, $H\alpha$ Activity and Soft X-Ray Emission
S. R. Kane, R. W. Kreplin, M.-J. Martres, M. Pick, and I. Soru-Escout **38**, 483
- OSO-7 Observations of Solar X-Rays in the Energy Range 10-100 keV
D. W. Datlowe, M. J. Elcan, and H. S. Hudson **39**, 155
- A Two-Component Thermal Model of X-Ray Burst Sources
J. R. H. Herring **39**, 175
- X-Ray Bursts from Solar Flares behind the Limb
J.-René Roy and Dayton W. Datlowe **40**, 165

- On the Relationships between sfc (crochet) and Solar X-Ray and Microwave Bursts
J. Hanumath Sastri and B. Suryanaryan Murthy 41, 477
- The Structure and Evolution of a Solar Burst at 2.8 cm and the Relation with the Soft X-Ray Emitting Region
Marcello Felli, Roberto Pallavicini, and Gianni Tofani 44, 135
- Observations of the Structure and Evolution of Solar Flares with a Soft X-Ray Telescope
J. A. Vorpahl, E. G. Gibson, P. B. Landecker, D. L. McKenzie, and J. H. Underwood 45, 199
- Spatial Structure and Temporal Development of a Solar X-Ray Flare Observed from Skylab on June 15, 1973
R. Pallavicini, G. S. Vaiana, S. W. Kahler, and A. S. Krieger 45, 411
- Expansion of Chromospheric Matter in the Gradual Phase of Solar Flares
K. Ohki 45, 435
- Problems in Relating the Optical and X-Ray Emissions from a Solar Flare
J.-René Roy 48, 265
- The Spatial Structure of a Solar Flare in Soft X-Rays and Centimetric Wavelengths
R. Pallavicini and G. S. Vaiana 49, 297
- The Quantitative Properties of Three Soft X-Ray Flare Kernels Observed with the AS&E X-Ray Telescope on Skylab
S. W. Kahler, R. D. Petraso, and S. R. Kane 50, 179
- A Comparison of Positions and Sizes of Sources of Centimeter and X-Ray Bursts
M. R. Kundu, C. E. Alissandrakis, and S. W. Kahler 50, 429
- A Two-Component Model of Impulsive Microwave Burst Emission Consistent with Soft and Hard X-Rays
A. Böhme, F. Fürstenberg, J. Hildebrandt, O. Saal, A. Krüger, P. Hoyng, and G. A. Stevens 53, 139
- Effects of Soft X-Ray Flux on the Lower Solar Atmosphere in Flares
J. C. Henoux and Y. Nakagawa 53, 279
- Comparison between Some $H\alpha$ and X-Ray Flares
R. Falciani, M. Giordano, M. Rigutti, and G. Roberti 54, 169
- Does the Emission Measure Decrease during the Start of a Soft X-Ray Flare?
C. J. Wolfson, L. W. Acton, and D. W. Datlowe 59, 373
- Soft X-Ray Emission and Chromospheric Flares
Marcos E. Machado 60, 341
- On the Seats of Elementary Flare Bursts
Cornelis de Jager 64, 135
- Simultaneous Measurements of EUV and Soft X-Ray Solar Flare Emission
D. M. Horan and R. W. Kreplin 74, 265
- Soft X-Ray Emission from Active Regions Shortly before Solar Flares
C. J. Wolfson 76, 377
- Impulsive Phase of Flares in Soft X-Ray Emission
E. Antonucci, A. H. Gabriel, L. W. Acton, J. L. Culhane, J. G. Doyle, J. W. Leibacher, M. E. Machado, L. E. Orwig, and C. G. Rapley 78, 107
- Spatial and Temporal Evolution of Soft and Hard X-Ray Emission in a Solar Flare
Marcos E. Machado, André Duijveman, and Brian R. Dennis 79, 85
- X-Ray Imaging of Three Flares during the Impulsive Phase
André Duijveman, Peter Hoyng, and Marcos E. Machado 81, 137
- Direct Measurements of the Gradual Extreme Ultraviolet Emission from Large Solar Flares
D. M. Horan, R. W. Kreplin, and K. P. Dere 85, 303
- Non-Thermal and Non-Equilibrium Effects in Soft X-Ray Flare Spectra
A. H. Gabriel, E. Antonucci, and L. Steenman-Clark 86, 59
- Imaging of Impulsive Solar Flare Phenomena
A. Duijveman and P. Hoyng 86, 279
- Location of X-Ray and Microwave Sources
H. Hudson 86, 444
- Energetics of a Compact Flare
Marcos E. Machado 89, 133
- Heat Flux Saturation in Hydrodynamic Soft X-Ray Solar Flare Plasmas
I. J. D. Craig and J. W. Davys 90, 343

- He I 10830 Observations of the 3N/M4.0 Flare of 4 September, 1982
Karen L. Harvey and Frank Recely **91**, 127
- The Spatial Distribution of 6 Centimeter Gyroresonance Emission from a Flaring X-Ray Loop
S. W. Kahler, D. F. Webb, J. M. Davis, and M. R. Kundu **82**, 271
- Initial Phase of Chromospheric Evaporation in a Solar Flare
E. Antonucci, B. R. Dennis, A. H. Gabriel, and G. M. Simnett **96**, 129
- VLA Observations of Narrow-Band Decimetric Burst Emission
Robert F. Willson **96**, 199
- Observations of Steady Anomalous Magnetic Heating in Thin Current Sheets
P. C. H. Martens, G. H. J. Van Den Oord, and P. Hoyng **96**, 253
- Correlation of Solar Decimetric Radio Bursts with X-Ray Flares
M. J. Aschwanden, H. J. Wiehl, A. O. Benz, and S. R. Kane **97**, 159
- Kernel Heating and Ablation in the Impulsive Phase of Two Solar Flares
Cornelis de Jager **98**, 267
- Multiwavelength Analysis of a Well Observed Flare from SMM
P. MacNeice, R. Pallavicini, H. E. Mason, G. M. Simnett, E. Antonucci, R. A. Shine, D. M. Rust, C. Jordan, and B. R. Dennis **99**, 167
- Evidence for Beamed Electrons in a Limb X-Ray Flare Observed by HXIS
Eberhard Haug and Gerhard Elwert **99**, 219
- The Super-Hot Thermal Component in the Decay Phase of Solar Flares
Hua-An Lin, R. P. Lin, and S. R. Kane **99**, 263
- The Onset of Coronal Mass Ejections
G. M. Simnett and R. A. Harrison **99**, 291
- X-Ray Bursts, Spectrum**
- X-Ray and Extreme Ultraviolet (1-400 Å) Spectroscopy of the Sun, from OSO-III
W. M. Neupert, W. A. White, W. J. Gates, M. Swartz, and R. M. Young **6**, 183
- Observations of Energetic X-Rays and Solar Cosmic Rays Associated with the 23 May 1967 Solar Flare Event
S. R. Kane and J. R. Winckler **6**, 304
- Enhancement of Ionizing Radiation during a Solar Flare
O. K. Garriott, A. V. Da Rosa, M. J. Davis, L. S. Wagner, and G. D. Thome **8**, 226
- Some Relationships between Solar X-Ray Bursts and SPAs Produced on VLF Propagation in the Lower Ionosphere
Pierre Kaufmann and M. H. Paes de Barros **9**, 478
- Solar Soft X-Ray Flare Spectra from OSO-4
J. F. Meekins, G. A. Doschek, H. Friedman, T. A. Chubb, and R. W. Kreplin **13**, 198
- Recombination Edges Observed in Solar Soft X-Ray Flare Spectra
J. F. Meekins and G. A. Doschek **13**, 213
- The Helium-Like Calcium, Silicon, and Sulfur Lines during the Decay of a Large Flare
G. A. Doschek and J. F. Meekins **13**, 220 *Erratum 28*, 517
- Re-Interpretation of OSO-III Scintillation Counter Measurements of Hard Solar X-Ray Spectra
S. R. Kane and H. S. Hudson **14**, 414
- On the Polarization and Anisotropy of Solar X-Radiation during Flares
Gerhard Elwert and Eberhard Haug **15**, 234
- Satellite Lines in the Solar X-Ray Spectrum
Werner M. Neupert **18**, 474
- Anisotropy of Solar Hard X-Radiation during Flares
Gerhard Elwert and Eberhard Haug **20**, 413
- Discussion of Paper 'On the Polarization and Anisotropy of Solar X-Radiation during Flares', by G. Elwert and E. Haug
S. W. Kahler, G. A. Doschek, J. F. Meekins, and D. M. Horan **20**, 422
- Reply to Discussion by Kahler *et al.*
G. Elwert and E. Haug **20**, 425
- The 1-55 Å X-Ray Emission from an Active Limb Prominence
A. C. Brinkman and M. L. Shaw **23**, 120
- The Decay Characteristics of Models of Solar Hard X-Ray Bursts
John C. Brown **25**, 158

The Impulsive X-Ray Burst of October 10, 1970

S. R. Kane, S. W. Kahler, and J. D. Kurfess 25, 418

Spectral Development of a Solar X-Ray Burst Observed on OSO-7

D. L. McKenzie, D. W. Datlowe, and L. E. Peterson 28, 175

The Solar Albedo of Hard X-Ray Flares

N. Santangelo, H. Horstman, and E. Horstman-Moretti 29, 143

 $K\alpha$ Line Emission during Solar X-Ray Bursts

K. J. H. Phillips and W. M. Neupert 32, 209

Observations of Solar X-Ray Bursts in the Energy Range 5-15 keV

D. W. Datlowe, H. S. Hudson, and L. E. Peterson 35, 193

Ionization Equilibrium in Soft X-Ray-Emitting Solar Flares

K. J. H. Phillips, W. M. Neupert, and R. J. Thomas 36, 383

A Multithermal Analysis of Solar X-Ray Emission

Kenneth P. Dere, Donald M. Horan, and Robert W. Kreplin 36, 459

OSO-7 Observations of Solar X-Rays in the Energy Range 10-100 keV

D. W. Datlowe, M. J. Elcan, and H. S. Hudson 39, 155

Hard X-Ray Bursts from Flares behind the Solar Limb

David L. McKenzie 40, 183

Crystal Spectrometer Studies of the Sun Employing a Rotation Modulation Collimator

D. H. Brabban, W. M. Glencross, and F. D. Rosenberg 42, 355

An Impulsive Solar X-Ray Burst in the Energy Range 90-400 keV

Y. Fukada, S. Hayakawa, I. Kasahara, F. Makino, I. Suzuki, Y. Tanaka, and B. V. Sreekantan 42, 441

High Time Resolution Analysis of Solar Hard X-Ray Flares Observed on Board the ESO TD-1A Satellite

Peter Hoyng, John C. Brown, and H. Frank van Beek 48, 197

Scattering of Fast Flare Electrons in Solar Atmosphere and Their X-Ray Spectrum

G. Elwert and R. R. Rausaria 57, 409

Does the Emission Measure Decrease during the Start of a Soft X-Ray Flare?

C. J. Wolfson, L. W. Acton, and D. W. Datlowe 59, 373

Indirect Estimation of Energy Disposition by Non-Thermal Electrons in Solar Flares

H. S. Hudson, R. C. Canfield, and S. R. Kane 60, 137

On the Nonthermal Excitation and Polarization of X-Ray Lines during Small Flares

Eberhard Haug 61, 129

Application of the Trap-Plus-Precipitation Hard X-Ray Burst Model to the Flare of August 4, 1972

A. Gordon Emslie, Malcolm G. McGaig, and John C. Brown 63, 175

Dynamic Spectral Characteristics of Thermal Models for Solar Hard X-Ray Bursts

John C. Brown, Ian J. D. Craig, and Judith T. Karpen 67, 143

Solar Flare X-Ray Spectra. III: Initial and Final Phase

V. V. Korneev, V. V. Krutov, S. L. Mandelstam, B. Sylwester, I. P. Tindo, A. M. Urnov, B. Valníček, and I. A. Zhitnik 68, 381

Observation of Chromospheric Evaporation during the Solar Maximum Mission

E. Antonucci and B. R. Dennis 86, 67

Hard X-Ray Dynamic Spectra Observed by HINOTORI

N. Nitta, T. Takakura, K. Ohki, and M. Yoshimori 86, 241

Relation between Hard X-Ray Spectra and Electron Energy Spectra

Ikuro Suzuki and Kin-Aki Kawabata 86, 253

General Aspects of Hard X-Ray Flares Observed by HINOTORI: Gradual Burst and Impulsive Burst

K. Ohki, T. Takakura, S. Tsuneta, and N. Nitta 86, 301

Spatial Structure of High Energy Photon Sources

S. R. Kane 86, 355

Correlation of Hard X-Ray and Type III Bursts in Solar Flares

Vahe Petrosian and John Leach 87, 165

Radio, X-Ray, and Optical Observations of the Flare of June 13, 1980, at 6^h22^m UT

A. Kattenberg, M. Allaart, C. de Jager, A. Schadee, J. Schrijver, K. Shibasaki, Z. Švestka, and W. van Tend 88, 315

Comparisons of Solar Flare X-Ray Producing and Escaping Electrons from ~ 2 to 100 keV

Lian-De Pan, R. P. Lin, and S. R. Kane 91, 345

Great Microwave Bursts and Hard X-Rays from Solar Flares

Herbert J. Wiehl, David A. Batchelor, Carol Jo Crannell, Brian R. Dennis, Phillip N. Price, and Andreas Magun **96**, 339

Evidence for Beamed Electrons in a Limb X-Ray Flare Observed by HXIS

Eberhard Haug and Gerhard Elwert **99**, 219

The Super-Hot Thermal Component in the Decay Phase of Solar Flares

Hua-An Lin, R. P. Lin, and S. R. Kane **99**, 263

Solar Hard X-Ray Bursts (*Invited Review Paper*)

Brian R. Dennis **100**, 465

X-Ray Bursts, Theory**The Hard Solar X-Ray Burst of 18 September 1963**

C. de Jager **2**, 327

Theory of Deka-keV Solar X-Ray Bursts

R. Snijders **4**, 432

Interpretation of Time Characteristics of Solar X-Ray Bursts Referring to Associated Microwave Bursts

Tatsuo Takakura **6**, 133

Comment on the X-Ray Event of July 7, 1966

R. Snijders **6**, 290

Directivity of Solar Hard X-Ray Bursts

Ken-Ichiro Ohki **7**, 260

Plasma Turbulence in Solar Flares as an Explanation of Some Observed Phenomena

M. Friedman and S. M. Hamberger **8**, 104

Microwave and Hard X-Ray Bursts from Solar Flares

Stephen S. Holt and Reuven Ramaty **8**, 119

De-Occultation X-Ray Events of 2 December, 1967

Harold Zirin, William Ingham, Hugh Hudson, and David McKenzie **9**, 269

Solar X-Ray Bursts at Energies Less than 10 keV Observed with OSO-4

J. L. Culhane and K. J. H. Phillips **11**, 117

Solar Soft X-Ray Flare Spectra from OSO-4

J. F. Meekins, G. A. Doschek, H. Friedman, T. A. Chubb, and R. W. Kreplin **13**, 198

Recombination Edges Observed in Solar Soft X-Ray Flare Spectra

J. F. Meekins and G. A. Doschek **13**, 213

Theory of Solar Radio Pulsation

Y. T. Chiu **13**, 420

Soft X-Ray Enhancement during Flares

S. D. Deshpande and J. N. Tandon **13**, 462

Strong Coronal Shocks and 'Thermal' Solar X-Ray Bursts

Charles L. Hyder **14**, 196

On the Polarization and Anisotropy of Solar X-Radiation during Flares

Gerhard Elwert and Eberhard Haug **15**, 234

The Cooling of Flare Produced Plasmas in the Solar Corona

J. L. Culhane, J. F. Vesecky, and K. J. H. Phillips **15**, 394

Characteristics of Soft Solar X-Ray Bursts

Jerry F. Drake **16**, 152

The Origin of Flare Produced Hard X-Rays

R. W. Milkey **16**, 465

Soft Solar X-Rays and Solar Activity. III: Loop Prominences with Soft X-Ray Emission

Richard G. Teske **17**, 76

10-100 keV Electron Acceleration and Emission from Solar Flares

R. P. Lin and H. S. Hudson **17**, 412

On the Origin of Solar Flare X-Rays

A. A. Korzhak **18**, 284

The Deduction of Energy Spectra of Non-Thermal Electrons in Flares from the Observed Dynamic Spectra of Hard X-Ray Bursts

John C. Brown **18**, 489

- The Time Behavior of Temperature and Emission Measure in X-Ray Flares
Robert W. Milkey, Norman K. Blocker, William H. Chambers, Paul E. Fehla, Jack C. Fuller, and Walter E. Kunz 20, 400
- Anisotropy of Solar Hard X-Radiation during Flares
Gerhard Elwert and Eberhard Haug 20, 413
- Discussion of Paper 'On the Polarization and Anisotropy of Solar X-Radiation during Flares', by G. Elwert and E. Haug
S. W. Kahler, G. A. Doschek, J. F. Meekins, and D. M. Horan 20, 422
- Reply to Discussion by Kahler *et al.*
G. Elwert and E. Haug 20, 425
- Electron Temperature and Emission Measure Variations during Solar X-Ray Flares
D. M. Horan 21, 188
- Heating of the Solar Flare Plasma by High Energy Electrons
Chung-Chieh Cheng 22, 178
- The 1-55 Å X-Ray Emission from an Active Limb Prominence
A. C. Brinkman and M. L. Shaw 23, 120
- Soft X-Ray and Microwave Observations of Hot Regions in Solar Flares
H. S. Hudson and K. Ohki 23, 155
- The Decay Characteristics of Models of Solar Hard X-Ray Bursts
John C. Brown 25, 158
- Polarization of Hard X-Rays from Solar Flares
Eberhard Haug 25, 425
- The Self Absorption of Gyro-Synchrotron Emission in a Magnetic Dipole Field: Microwave Impulsive Burst and Hard X-Ray Burst
Tatsuo Takakura 26, 151
- The Directivity and Polarization of Thick Target X-Ray Bremsstrahlung from Solar Flares
John C. Brown 26, 441
- Thermal and Non-Thermal Soft X-Ray Bursts
M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 27, 164
- A Simulation of the Directivity Effect to be Expected in Hard X-Ray Flares
Michael L. Shaw 27, 436
- Thick Target X-Ray Bremsstrahlung from Partially Ionized Targets in Solar Flares
John C. Brown 28, 151
- Two Component Temperature Analysis of OSO-5 X-Ray Flare Data
J. R. H. Herring and I. J. D. Craig 28, 169
- Spectral Development of a Solar X-Ray Burst Observed on OSO-7
D. L. McKenzie, D. W. Datlowe, and L. E. Peterson 28, 175
- The Solar Albedo of Hard X-Ray Flares
N. Santangelo, H. Horstman, and E. Horstman-Moretti 29, 143
- Continuous Energy Injection at Numerous Bright Points during Soft X-Ray Flare Enhancement
W. M. Glencross 29, 429
- The Thermal Nature of Soft X-Ray Flares
I. J. D. Craig 31, 197
- Interferometer Observations of a Radio Burst at 8.6 mm Associated with a Polarized Hard X-Ray Event
K. Kawabata, Y. Sofue, H. Ogawa, and T. Omodaka 31, 469
- K α Line Emission during Solar X-Ray Bursts
K. J. H. Phillips and W. M. Neupert 32, 209
- Temporal Fine Structure of X-Rays from Trapped Electrons in Solar Flares
John C. Brown 32, 227
- Evidence for Thin-Target X-Ray Emission in a Small Solar Flare on 26 February 1972
D. W. Datlowe and R. P. Lin 32, 459
- Hard Solar Flare X-Ray Bursts on 8 December 1970
K. A. Anderson and W. A. Mahoney 35, 419
- Polarization Results of Solar X-Rays from OSO-7
M. P. Nakada, W. M. Neupert, and R. J. Thomas 37, 429

Observations of Very Small Soft X-Ray Flares

W. M. Glencross, E. B. Dorling, and J. R. H. Herring 38, 183

OSO-7 Observations of Solar X-Rays in the Energy Range 10-100 keV

D. W. Datlowe, M. J. Elcan, and H. S. Hudson 39, 155

A Two-Component Thermal Model of X-Ray Burst Sources

J. R. H. Herring 39, 175

X-Ray Bursts from Solar Flares behind the Limb

J.-René Roy and Dayton W. Datlowe 40, 165

The Height Distribution of Flare Hard X-Rays in Thick and Thin Target Models

John C. Brown and A. N. McClymont 41, 135

Anisotropy and Polarization of Solar X-Ray Bursts

J. C. Henoux 42, 219

X-Ray Heating of a Low-Temperature Region in Chromospheric Flares

B. V. Somov 42, 235

Slow X-Ray Bursts and Flares with Filament Disruption

Jean-René Roy and Frances Tang 42, 425

Heating and Cooling of the Thermal X-Ray Plasma in Solar Flares

Ronald L. Moore and Dayton W. Datlowe 43, 189

Thermal Models of Flaring Region Based on Observations by the SOLRAD 10 Satellite

M. Landini, B. C. Monsignori Fossi, and R. Pallavicini 44, 101

Contribution of Electron-Electron Bremsstrahlung to Solar Hard X-Radiation during Flares

Eberhard Haug 45, 453

Comparison of the 9.1 cm and Soft X-Ray Emission from an Active Region

M. Gerassimenko, J. T. Nolte, and R. D. Petrasso 48, 121

High Time Resolution Analysis of Solar Hard X-Ray Flares Observed on Board the ESRO TD-1A Satellite

Peter Hoyng, John C. Brown, and H. Frank van Beek 48, 197

Continuous Injection Model for Hard X-Ray Correlated Microwave Bursts

Christian Mätzler 49, 117 *Erratum 53, 197*

Oscillations of Coronal Electron Traps Inferred from Hard X-Ray Data

J. C. Brown and A. N. McClymont 49, 329

Comparison of Flare Bremsstrahlung Resulting from Energetic Thermal and Nonthermal Electrons

J. Davis and J. E. Rogerson 51, 185

A Hard X-Ray Observation of a Solar Flare with 100 ms Time Resolution

K. Hurley and G. Duprat 52, 107

Collective Plasma Effects and the Electron Number Problem in Solar Hard X-Ray Bursts

J. C. Brown and D. B. Melrose 52, 117

The Decay of Coronal Loops Brightened by Flares and Transients

Allen S. Krieger 56, 107

Pulsations in Solar Hard X-Ray Bursts

Belinda Lipa 57, 191

Scattering of Fast Flare Electrons in Solar Atmosphere and Their X-Ray Spectrum

G. Elwert and R. R. Rausaria 57, 409

Diagnostics of Solar Flare Hard X-Ray Sources

Peter Hoyng, Joshua W. Knight, and Daniel S. Spicer 58, 139 *Errata 59, 407*

Determination of the Source Height and Anisotropy of Solar Hard X-Rays by Measurements with Good Time Resolution

Taeil Bai 59, 141

Does the Emission Measure Decrease during the Start of a Soft X-Ray Flare?

C. J. Wolfson, L. W. Acton, and D. W. Datlowe 59, 373

On the Nonthermal Excitation and Polarization of X-Ray Lines during Small Flares

Eberhard Haug 61, 129

Short-Term Temporal Variations of X-Ray Bright Points

J. T. Nolte, C. V. Solodyna, and M. Gerassimenko 63, 113

Application of the Trap-Plus-Precipitation Hard X-Ray Burst Model to the Flare of August 4, 1972

A. Gordon Emslie, Malcolm G. McGaig, and John C. Brown 63, 175

First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares

Dean F. Smith 66, 135

- On the Physics of a Long Decay X-Ray Event
K. R. Krall, J. B. Smith, Jr., and J. P. McGuire **66**, 371
- Dynamic Spectral Characteristics of Thermal Models for Solar Hard X-Ray Bursts
John C. Brown, Ian J. D. Craig, and Judith T. Karpen **67**, 143
- A Model of Hot Loops Associated with Solar Flares. I: Gasdynamics in the Loops
F. Nagai **68**, 351
- An Interpretation of the Decay Characteristics of Solar Hard X-Ray Bursts
Kenji Kawamura, Toshihiro Omodaká, and Ikuro Suzuki **71**, 55
- Height Structure of Thermal Hard X-Ray Sources on the Sun
John C. Brown and John Hayward **73**, 121
- Comment on 'First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares'
Gerard Van Hoven **73**, 205
- The Role of Betatron Acceleration in Complex Solar Bursts
Judith T. Karpen **77**, 205
- X-Ray Imaging of Three Flares during the Impulsive Phase
André Duijveman, Peter Hoyng, and Marcos E. Machado **81**, 137
- Hydrodynamic Response of the Solar Chromosphere to an Elementary Flare Burst. II: Thermal Model
B. V. Somov, B. J. Sermulina, and A. R. Spektor **81**, 281
- Non-Thermal and Non-Equilibrium Effects in Soft X-Ray Flare Spectra
A. H. Gabriel, E. Antonucci, and L. Steenman-Clark **86**, 59
- Interpretation of the Soft X-Ray Spectra from HINOTORI
K. Tanaka, N. Nitta, K. Akita, and T. Watanabe **86**, 91
- Thermal Evolution of Flare Plasmas
Tetsuya Watanabe, Katsuo Tanaka, Kyo Akita, and Nariaki Nitta **86**, 107
- Relation between Hard X-Ray Spectra and Electron Energy Spectra
Ikuro Suzuki and Kin-Aki Kawabata **86**, 253
- Hard X-Ray Images of Impulsive Bursts
T. Takakura, K. Ohki, S. Tsuneta, and N. Nitta **86**, 323
- Dynamical Interpretation of the Very Hot Region Appearing at the Top of a Loop
Kazunari Shibata, Yutaka Uchida, and Takashi Sakurai **86**, 345
- Spatial Structure of High Energy Photon Sources
S. R. Kane **86**, 355
- Narrow-Band Decimeter Bursts and X-Ray Emissions - Possible Evidence of Negative Absorption or Maser Effect
Shinzo Enome **86**, 421
- Correlation of Hard X-Ray and Type III Bursts in Solar Flares
Vahe Petrosian and John Leach **87**, 165
- A Comparison of the Thick-Target Model with Stereo Data on the Height Structure of Solar Hard X-Ray Bursts
J. C. Brown, V. A. Carlaw, D. Cromwell, and S. R. Kane **88**, 281
- Energetics of a Compact Flare
Marcos E. Machado **89**, 133
- Long Time Delay between the Peaks of Intense Solar Hard X-Ray and Microwave Bursts
T. Takakura, S. S. Degaonkar, K. Ohki, T. Kosugi, and S. Enome **89**, 379
- Time Delays in Large and Small Loop Thermal Models for Hard X-Ray Bursts
Dean F. Smith and Lorant A. Muth **90**, 83
- Gradual Hard X-Ray Events and Second Phase Particle Acceleration
S. W. Kahler **90**, 133
- Steady Models for the Hard X-Ray Loops in the Solar Corona
T. Takakura **91**, 311
- Multiple Energetic Injections in a Strong Spike-Like Solar Burst
P. Kaufmann, E. Correia, J. E. R. Costa, B. R. Dennis, G. J. Hurford, and J. C. Brown **91**, 359
- Flare Loops Heated by Thermal Conduction
David M. Rust and Boris V. Somov **93**, 95
- The Relation between Hard X-Ray and Transition-Region Line Emission in Solar Flares
John T. Mariska and A. I. Poland **96**, 317

- The Interpretation of Hard X-Ray Polarization Measurements in Solar Flares
John Leach, A. Gordon Emslie, and Vahé Petrosian **96**, 331
- Great Microwave Bursts and Hard X-Rays from Solar Flares
Herbert J. Wiehl, David A. Batchelor, Carol Jo Crannell, Brian R. Dennis, Phillip N. Price, and Andreas Magun **96**, 339
- Hard X-Ray Bremsstrahlung Produced by Electrons Escaping a High-Temperature Thermal Source in a Solar Flare
Luidi Nocera, Yu. I. Skrynnikov, and Boris V. Somov **97**, 81
- Temporal Behaviour of the Thermal Model of Hard X-Ray Bursts
Alexander L. MacKinnon **98**, 293
- Hard X-Ray Imaging Evidence of Nonthermal and Thermal Burst Components
Marcos E. Machado, Marta G. Rovira, and Cora V. Sneibrun **99**, 189
- Quantitative Analysis of Hard X-Ray 'Footpoint' Flares Observed by the Solar Maximum Mission
A. L. MacKinnon, J. C. Brown, and J. Hayward **99**, 231
- The Super-Hot Thermal Component in the Decay Phase of Solar Flares
Hua-An Lin, R. P. Lin, and S. R. Kane **99**, 263
- Solar Hard X-Ray Bursts (*Invited Review Paper*)
Brian R. Dennis **100**, 465
- X-Ray Bursts, Thermal** (*see X-Ray Bursts*)
- X-Ray Emission, Solar** (*see Emission, X-ray*)
- X-Ray Emission, Stellar** (*see Stellar Physics*)
- X-Ray Structures**
- A Glancing Incidence Solar Telescope for the Soft X-Ray Region
J. H. Underwood and W. S. Muney **1**, 129
- Identification of a Solar X-Ray Source Using D Layer Ionization Behavior during an Eclipse
David D. Meisel **5**, 575
- Le Rayonnement X du soleil lors de l'éclipse du 20 Mai 1966
G. Simon **7**, 295
- Further Investigations of Solar X-Ray Sources Using D-Layer Ionization Behavior during Eclipses
David D. Meisel **8**, 477
- On the Localization, Size and Structure of the Regions of the X-Ray Flares on the Sun
I. L. Beigman, Yu. I. Grineva, S. L. Mandel'stam, L. A. Vainstein, and I. A. Žitnik **9**, 160
- Identification of Two Solar X-Ray Sources at the 22 September 1968 Total Eclipse
David D. Meisel **9**, 487
- Comments on a Paper by D. Meisel Entitled 'Identification of Solar X-Ray Source Using D-Layer Ionization Behavior during an Eclipse'
A. C. Aikin and J. H. Underwood **11**, 334
- Reply to Aikin and Underwood
David D. Meisel **11**, 338
- EUV and Soft X-Ray Images of the Sun on March 11th, 1971
H. Bräuninger, H. J. Einighammer, J. V. Feitzinger, H. H. Fink, D. H. Höhn, H. Koops, G. Krämer, U. Mayer, G. Möllenstedt, and M. Mozer **20**, 81
- Localization of the Source of Flare X-Ray Emission during the Eclipse of 7 March, 1970
R. W. Kreplin and R. G. Taylor **21**, 452
- Results from OSO-IV: The Long Term Behavior of X-Ray Emitting Regions
A. Krieger, F. Paolini, G. S. Vaiana, and D. Webb **22**, 150
- Photographs of the Sun in the XUV-Region
M. Burger and J. H. Dijkstra **24**, 395
- Superthermal Plasma Nodules and Their Relation to Solar Flares
L. D. de Feiter and C. de Jager **28**, 183
- A Coronal Hole and Its Identification as the Source of a High Velocity Solar Wind Stream
A. S. Krieger, A. F. Timothy, and E. C. Roelof **29**, 505
- Identification and Analysis of Structures in the Corona from X-Ray Photography
G. S. Vaiana, A. S. Krieger, and A. F. Timothy **32**, 81

- A Preliminary Study of the Extreme Ultraviolet Spectroheliograms from Skylab
R. Tousey, J.-D. F. Bartoe, J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, N. R. Sheeley, Jr., R. J. Schumacher, and M. E. VanHoosier 33, 265
- Spatial Distribution of Soft X-Ray and EUV Emission Associated with a Chromospheric Flare of Importance 1B on August 2, 1972
W. M. Neupert, R. J. Thomas, and R. D. Chapman 34, 349
- On the Nature of Plasma Arcs in Solar Active Regions
Ryszard Gajewski 35, 385
- X-Ray Bright Points, Coronal Heating and the Solar Cycle
M. H. Gokhale 41, 381
- Observation of a Non-Uniform Component in the Distribution of Coronal Bright Points
L. Golub, A. S. Krieger, and G. S. Vaiana 42, 131
- The Structure and Evolution of Coronal Holes
A. F. Timothy, A. S. Krieger, and G. S. Vaiana 42, 135
- Crystal Spectrometer Studies of the Sun Employing a Rotation Modulation Collimator
D. H. Brabban, W. M. Glencross, and F. D. Rosenberg 42, 355
- The Coronal Structure of Active Regions
M. Landini, B. C. Monsignor Fossi, A. Krieger, and G. S. Vaiana 44, 69
- A Comparison of Coronal X-Ray Structures of Active Regions with Magnetic Fields Computed from Photospheric Observations
G. Poletto, G. S. Vaiana, M. V. Zombeck, A. S. Krieger, and A. F. Timothy 44, 83
- Observations of the Structure and Evolution of Solar Flares with a Soft X-Ray Telescope
J. A. Vorpahl, E. G. Gibson, P. B. Landecker, D. L. McKenzie, and J. H. Underwood 45, 199
- Coronal Changes Associated with a Disappearing Filament
N. R. Sheeley, Jr., J. D. Bohlin, G. E. Brueckner, J. D. Purcell, V. E. Scherrer, R. Tousey, J. B. Smith, Jr., D. M. Speich, E. Tandberg-Hanssen, R. M. Wilson, A. C. De Loach, R. B. Hoover, and J. P. McGuire 45, 377
- Spatial Structure and Temporal Development of a Solar X-Ray Flare Observed from Skylab on June 15, 1973
R. Pallavicini, G. S. Vaiana, S. W. Kahler, and A. S. Krieger 45, 411
- Comment on Lifetime Determination of Solar Features
L. Golub 46, 115
- Evidence for Opposed Currents in Active Region Loops
Randolph H. Levine 46, 159
- An Atlas of Coronal Hole Boundary Positions May 28 to November 21, 1973
J. T. Nolte, A. S. Krieger, A. F. Timothy, G. S. Vaiana, and M. V. Zombeck 46, 291 *Erratum/Replacement Figure: Fig. 1a - 53, 547*
- An Active Role for Magnetic Fields in Solar Flares (*Invited Paper*)
David M. Rust 47, 21
- Evidence for Magnetic Energy Storage in Coronal Active Regions
A. S. Krieger, L. D. de Feiter, and G. S. Vaiana 47, 117
- Energy Storage and Deposition in a Solar Flare
J. A. Vorpahl 47, 147
- Preflare X-Ray Morphology of Active Regions Observed with the AS&E Telescope on Skylab
S. W. Kahler and B. J. Buratti 47, 157
- The Location of the Site of Energy Release in an X-Ray Flare-Like Brightening (*Extended abstract*)
R. D. Petrasso and A. S. Krieger 47, 167
- Coronal X-Ray Enhancements Associated with H α Filament Disappearances
D. F. Webb, A. S. Krieger, and D. M. Rust 48, 159
- Expansion of an X-Ray Coronal Arch into the Outer Corona
David M. Rust and Ernest Hildner 48, 381
- Association of X-Ray Arches with Chromospheric Neutral Lines
Patrick S. McIntosh, A. S. Krieger, J. T. Nolte, and G. Vaiana 49, 57
- Distribution of Lifetimes for Coronal Soft X-Ray Bright Points
Leon Golub, Allen S. Krieger, and Guiseppe S. Vaiana 49, 79
- The Spatial Structure of a Solar Flare in Soft X-Rays and Centimetric Wavelengths
R. Pallavicini and G. S. Vaiana 49, 297

- Observation of Spatial and Temporal Variations in X-Ray Bright Point Emergence Patterns
Leon Golub, Allen S. Krieger, and Guiseppe S. Vaiana 50, 311
- Transequatorial Loops Interconnecting McMath Regions 12472 and 12474
Z. Švestka, A. S. Krieger, R. C. Chase, and R. Howard 52, 69
- A Long-Lived Coronal Arch System Observed in X-Rays
J. P. McGuire, E. Tandberg-Hanssen, K. R. Krall, S. T. Wu, J. B. Smith, and D. M. Speich 52, 91
- Magnetic Properties of X-Ray Bright Points
L. Golub, A. S. Krieger, G. S. Vaiana, and J. W. Harvey 53, 111
- Observations of Limb Flares with a Soft X-Ray Telescope
Edward G. Gibson 53, 123
- Comments Regarding Energy Release and Transfer in Solar Flares
J. A. Vorpahl 53, 271
- Do Surges Heat the Corona?
David M. Rust, David F. Webb, and William MacCombie 54, 53
- Development of a Complex of Activity in the Solar Corona
Robert Howard and Zdeněk Švestka 54, 65 *Erratum* 56, 471
- Observations of the Birth of a Small Coronal Hole
Graig V. Solodyna, Allen S. Krieger, and Jerome T. Nolte 54, 123
- Soft X-Ray Observations of Large-Scale Coronal Active Region Brightenings
David M. Rust and David F. Webb 54, 403
- Radio and Soft X-Ray Evidence for Dense Non-Potential Magnetic Flux Tubes in the Solar Corona
R. T. Stewart and Joan Vorpahl 55, 111
- Ultraviolet Brightenings in Active Regions as Observed from OSO-8
B. W. Lites and E. R. Hansen 55, 347
- Do Changes in Coronal Emission Structure Imply Magnetic Reconnection?
J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. D. Petrasso, Z. Švestka, and D. G. Wentzel 55, 401
- The Decay of Coronal Loops Brightened by Flares and Transients
Allen S. Krieger 56, 107
- Analysis of X-Ray Observations of the 15 June 1973 Flare in Active Region NOAA 131
K. R. Krall, E. J. Reichmann, R. M. Wilson, W. Henze, Jr., and J. B. Smith, Jr. 56, 383 *Errata* 57, 485
- Observational Evidence of Continual Heating in X-Ray Emitting Coronal Loops
M. Gerassimenko, C. V. Solodyna, and J. T. Nolte 57, 103
- Short Term Evolution of Coronal Hole Boundaries
Jerome T. Nolte, Allen S. Krieger, and Craig V. Solodyna 57, 129
- The Association of Nonthermal Electrons with Non-Flaring Coronal Transients
D. F. Webb and M. R. Kundu 57, 155
- Physical Conditions in the Corona for a Bipolar Magnetic Region
Joan A. Vorpahl 57, 297
- X-Ray Analysis of a Polar Plume
Imad A. Ahmad and David F. Webb 58, 323
- Evidence Linking Coronal Transients to the Evolution of Coronal Holes
David F. Webb, Patrick S. McIntosh, Jerome T. Nolte, and Craig V. Solodyna 58, 389
- Configuration and Gradual Dynamics of Prominence-Related X-Ray Coronal Cavities
S. Serio, G. S. Vaiana, G. Godoli, S. Motta, V. Pirronello, and R. A. Zappalà 59, 65
- Physical Parameters in Long-Decay Coronal Enhancements
W. J. MacCombie and D. M. Rust 61, 69
- Study of the Post-Flare Loops on 29 July 1973. I: Dynamics of the X-Ray Loops
J. T. Nolte, M. Gerassimenko, A. S. Krieger, R. D. Petrasso, and Z. Švestka 62, 123
- Preflare Characteristics of Active Regions Observed in Soft X-Rays
S. W. Kahler 62, 347
- The Birthplaces of Active Regions and X-Ray Bright Points
R. Howard, L. Fritrová-Švestková, and Z. Švestka 63, 105
- Short-Term Temporal Variations of X-Ray Bright Points
J. T. Nolte, C. V. Solodyna, and M. Gerassimenko 63, 113

- Rapid Changes in the Fine Structure of a Coronal 'Bright Point' and a Small Coronal 'Active Region'
N. R. Sheeley, Jr. and L. Golub 63, 119
- A Comparison of the Temperature and Emission Measure of X-Ray Active Regions with Coronal Magnetic Fields
J. B. Burl, R. G. Teske, and E. B. Mayfield 63, 157
- Center to Limb Variation of the Intensity of the Photospheric Faculae
Tadashi Hirayama and Fumio Moriyama 63, 251
- Slowly Moving Disturbances in the X-Ray Corona
David M. Rust and Z. Švestka 63, 279
- The Height Structure of Solar Active Regions at X-Ray Wavelengths as Deduced from OSO-8 Limb Crossing Observations
J. M. Mosher 64, 109
- On the Physics of a Long Decay X-Ray Event
K. R. Krall, J. B. Smith, Jr., and J. P. McGuire 66, 371
- The Flare of September 7, 1973: A Typical Example of a Newly Recognized Class of Solar Transients
R. Pallavicini and G. S. Vaiana 67, 127
- Preflare Conditions, Changes and Events (*Invited Review Paper*)
Sara F. Martin 68, 217
- A Model of Hot Loops Associated with Solar Flares. I: Gasdynamics in the Loops
F. Nagai 68, 351
- Spatial and Temporal Variations of EUV Coronal Bright Points
Shadia R. Habbal and George L. Withbroe 69, 77
- OSO-8 Observations of the Impulsive Phase of Solar Flares in the Transition-Zone and Corona
Bruce W. Lites, E. C. Bruner, Jr., and C. J. Wolfson 69, 373
- X-Ray and $H\alpha$ Observations of a Filament-Disappearance Flare: An Empirical Analysis of the Magnetic Field Configuration
S. W. Kahler, D. F. Webb, and R. L. Moore 70, 335
- On the Outburst of Flare Activity of 26 November, 1973
Robert Howard and Zdeněk Švestka 71, 49
- The Development of X-Ray Flare Onsets near Active Region Filaments
S. W. Kahler 71, 337
- Transient Brightenings of Interconnecting Loops. II: Dynamics of the Brightened Loops
Zdeněk Švestka and Robert Howard 71, 349
- Kinematical Analysis of Flare Spray Ejecta Observed in the Corona
D. F. Webb and B. V. Jackson 73, 341
- Observations of a Post-Flare Radio Burst in X-Rays
Z. Švestka, R. T. Stewart, P. Hoyng, W. van Tend, L. W. Acton, A. H. Gabriel, C. G. Rapley, A. Boelee, E. C. Bruner, C. de Jager, H. LaFleur, G. Nelson, G. M. Simnett, H. F. van Beek, and W. J. Wagner 75, 305
- Study of the Post-Flare Loops on 29 July 1973. IV: Revision of T and n_e Values and Comparison with the Flare of 21 May 1980
Z. Švestka, H. W. Dodson-Prince, S. F. Martin, O. C. Mohler, R. L. Moore, J. T. Nolte, and R. D. Petraso 78, 271
- Unusual Coronal Activity Following the Flare of 6 November 1980
Z. Švestka, B. R. Dennis, M. Pick, A. Raoult, C. G. Rapley, R. T. Stewart, and B. E. Woodgate 80, 143
- Active Region Magnetic Fields Inferred from Simultaneous VLA Microwave Maps, X-Ray Spectroheliograms, and Magnetograms
E. J. Schmahl, M. R. Kundu, K. T. Strong, R. D. Bentley, J. B. Smith, Jr., and K. R. Krall 80, 233
- Properties of Coronal Arches
John M. Davis and Allen S. Krieger 80, 295
- X-Ray Imaging of Three Flares during the Impulsive Phase
André Duijveman, Peter Hoyng, and Marcos E. Machado 81, 137
- The Flares of April 1980. A Case for Flares Caused by Interacting Field Structures
Marcos E. Machado, Boris V. Somov, Marta G. Rovira, and Cornelis de Jager 85, 157
- Corrigendum*
89, 233

X-Ray and Microwave Observations of Active RegionsD. F. Webb, J. M. Davis, M. R. Kundu, and T. Velusamy **85**, 267**Purely Coronal Flare-Like Variations**Z. Švestka, J. Schrijver, B. Somov, B. R. Dennis, B. E. Woodgate, E. Fürst, W. Hirth, L. Klein, and A. Raoult **85**, 313**Development of Flare Morphology in X-Rays, and the Flare Scenario**C. de Jager **86**, 21**Transport and Containment of Plasmas, Particles, and Energy within Flares**L. W. Acton, W. A. Brown, M. E. C. Bruner, B. M. Haisch, and K. T. Strong **86**, 79**Positional Measurements on the Eruptive Prominence of 27 April and Comparison with the X-Ray Sources**Li Su-Cuan and Cao Tian-Jun **86**, 197**Pre- and Post-Flare X-Ray Variations in Active Regions**Zdeněk Švestka and Aert Schadee **86**, 267**Vertical Structure of Hard X-Ray Flares**S. Tsuneta, T. Takakura, N. Nitta, K. Ohki, K. Makishima, T. Murakami, M. Oda, and Y. Ogawara **86**, 313**Hard X-Ray Images of Impulsive Bursts**T. Takakura, K. Ohki, S. Tsuneta, and N. Nitta **86**, 323**Computed Magnetic Field Structure of the Flares Observed by HINOTORI Hard X-Ray Telescope**Takashi Sakurai **86**, 339**Comparison of Coronal Holes Observed in Soft X-Ray and He I 10830 Å Spectroheliograms**S. W. Kahler, J. M. Davis, and J. W. Harvey **87**, 47**Solar Cycle Dynamo Wave Origin of Sunspot Intensity and X-Ray Bright Point Number Variation**Hirokazu Yoshimura **87**, 251**X-Ray Bright Points and the Sunspot Cycle: Further Results and Predictions**John M. Davis **88**, 337**Enhanced X-Ray Emission above 3.5 keV in Active Regions in the Absence of Flares**Aert Schadee, Cornelis de Jager, and Zdeněk Švestka **89**, 287**Steady Models for the Hard X-Ray Loops in the Solar Corona**T. Takakura **91**, 311**The Spatial Distribution of 6 Centimeter Gyroresonance Emission from a Flaring X-Ray Loop**S. W. Kahler, D. F. Webb, J. M. Davis, and M. R. Kundu **82**, 271**Analysis of the Magnetic Field Configuration of a Filament-Associated Flare from X-Ray, UV, and Optical Observations**Chung-Chieh Cheng and R. Pallavicini **93**, 337**Hard X-Ray Imaging of a Solar Gradual Hard X-Ray Burst on April 1, 1981**T. Takakura, K. Ohki, T. Sakurai, J. L. Wang, J. Y. Xuan, S. C. Li, and R. Y. Zhao **94**, 359**Small-Scale Flux Emergence and the Evolution of Equatorial Coronal Holes**John M. Davis **95**, 73**Observations of Steady Anomalous Magnetic Heating in Thin Current Sheets**P. C. H. Martens, G. H. J. Van Den Oord, and P. Hoyng **96**, 253**Hard X-Ray Images of Possible Reconnection in the Flare of 21 May, 1980**Zdeněk Švestka and Giannina Poletto **97**, 113**Coronal X-Ray Activity Preceding Solar Flares**David F. Webb **97**, 321**Zeeman Effect****Sur une particularité de la composante π du triplet normal dans l'ombre d'une tache**J. C. Henoux **4**, 315**Polarized Light, Magnetographs, and Solar Magnetic Fields**Charles L. Hyder **5**, 29**The Intensity, Velocity and Magnetic Structure of a Sunspot Region. III: On the Origin of the Apparent π Component in Sunspot Umbrae**J. M. Beckers and E. H. Schröter **7**, 22**The Zeeman Effect for Weak Magnetic Fields**Jan Olof Stenflo **8**, 260

- On the Pseudo- π -Component in Sunspot Spectra
Rainer Göhring 8, 271
- The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. I: The Zeeman Triplet
J. M. Beckers 9, 372 *Erratum* 15, 507
- On π -Components in Zeeman-Split Lines of the Umbra Spectrum
J. P. Mehlretter 9, 387
- The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. II: Zeeman Multiplets for Dipole and Quadrupole Radiation
J. M. Beckers 10, 262
- Line Formation in a Magnetic Field
David E. Rees 10, 268
- Fraunhofer Lines without Zeeman Splitting
Gopal Sistla and J. W. Harvey 12, 66
- Electric Current in a Sunspot
R. Jayanthan 12, 104
- Zeeman Splitting of Molecular Lines in Sunspot Spectra
E. A. Mallia 14, 125
- Hale's Attempts to Determine the Sun's General Magnetic Field
Jan Olof Stenflo 14, 263
- Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. III: Calculations for Different Spot Models and Arbitrary Depth Dependence of the Magnetic Field Vector
J. Staude 15, 102
- On the Absorption Matrix in a Non-Uniform Magnetic Field
David E. Rees 16, 77
- On Apparent Differences in Magnetic Field Strengths Measured from Zeeman Splittings of Molecular Lines and Fe I $\lambda 5250.2$ Å
Jürgen Staude 17, 331
- On Polarimetry in Solar Active Regions. IV: Influence of Telescopic Phase Retardation
E. Wiehr 18, 226
- Prominent Zeeman Lines in Sunspot Spectra and Their Temperature Sensitivity
A. Wittmann 20, 78
- The Crossover and Magneto-Optical Effects in Sunspot Spectra
V. M. Grigorjev and J. M. Katz 22, 119
- On the Interpretation of the π -Component Splitting in Sunspot Spectra
V. N. Obridko and L. B. Demkina 24, 336
- Fraunhofer Lines with Large Zeeman Splitting
J. W. Harvey 28, 9
- Polarization of Red System CN Lines in Sunspots
J. W. Harvey 28, 43
- The Influence of Molecular Blends and Non-Thermal Line Broadening on the Profile of the Zeeman Triplet λ 5250.22 in Sunspots
Olav Kjeldseth Moe 33, 393
- Population théorique des sous niveaux Zeeman relatifs à la raie 5303 Å de Fe XIV
J. P. Rozelot 41, 373
- The Zeeman Broadening of High n Solar Recombination Lines
A. Greve 44, 371
- On the Effective Landé Factor of Magnetic Lines
Egidio Landi Degl'Innocenti 77, 285
- Dependence of the Properties of Magnetic Fluxtubes on Area Factor or Amount of Flux
J. O. Stenflo and J. W. Harvey 95, 99
- The Zeeman Pattern of Magnetic Lines and Their Statistical Properties in the Fe I Solar Spectrum
Egidio Landi Degl'Innocenti 99, 1

Name Index — Volumes 1–100

January 1967 — October 1985

- ABRANIN, C. and H. WOHL / Solar Rotation Velocity as Determined from Sunspot Drawings of J. Hevelius in the 17th Century **70**, 197
- ABDUSSAMATOV, H. I. / On the Magnetic Fields and Motions in Sunspots at Different Atmospheric Levels **16**, 384
- ABDUSSAMATOV, H. I. / On Fine Structure of the Magnetic Field and Brightness in the Penumbrae of Sunspots **48**, 117 (*Research Note*)
- ABDUSSAMATOV, H. I. / On Mass Flow in a Complex Sunspot **65**, 197
- ABDUSSAMATOV, H. I. and V. A. KRAT / Magnetic 'Knots' in the Solar Photosphere **9**, 420 (*Research Note*)
- ABDUSSAMATOV, H. I. and V. A. KRAT / On Small-Scale Motions in the Photosphere and Chromosphere of the Sun **11**, 29 (*Research Note*)
- ABDUSSAMATOV, H. I. and V. A. KRAT / On the Motion of Penumbra Filaments in Sunspots **14**, 129 (*Research Note*)
- ABRAMI, A. / Solar Radio Astronomy Research at the Trieste Astronomical Observatory **9**, 502 (*Report from Solar Institute*)
- ABRAMI, A. / Pulsating Radio Emissions from the Solar Corona **11**, 104
- ABRAMI, A. / The Solar Radio Event of January 14, 1971. Position and Polarization Behaviour in the Middle Corona **46**, 229
- ABRANIN, E. P., L. L. BAZELYAN, N. YU. GONCHAROV, V. V. ZAITSEV, V. A. ZINICHEV, V. O. RAPOPORT, and YA. G. TSYBKO / Angular Sizes of Stria-Burst Sources in the Range 24-26 MHz **57**, 229
- ABRANIN, E. P., L. L. BAZELYAN, N. YU. GONCHAROV, V. A. ZINICHEV, V. O. RAPOPORT, and YA. G. TSYBKO / Harmonic Structure of Type IIIb and III Bursts **62**, 145
- ABRANIN, E. P., L. L. BAZELYAN, V. O. RAPOPORT, and YA. G. TSYBKO / Variations of Type III Burst Parameters during a Decametric Solar Storm **66**, 333
- ABRANIN, E. P., L. L. BAZELYAN, N. YU. GONCHAROV, V. V. ZAITSEV, V. A. ZINICHEV, V. O. RAPOPORT, and YA. G. TSYBKO / Positions of Solar Storm Burst Sources by Observations with a Heliograph Based on the UTR-2 Antenna at 25 MHz **66**, 393
- ABRANIN, E. P., L. L. BAZELYAN, V. V. ZAITSEV, V. O. RAPOPORT, and YA. G. TSYBKO / Radio Echo and Sporadic Radiation Scattering in the Solar Corona **78**, 179
- ABRANIN, E. P., L. L. BAZELYAN, and YA. G. TSYBKO / Harmonic Relation of Type IIIb-III Solar Radio Bursts in 6.25, 12.5, and 25.0 MHz Octaves **91**, 377
- ABRANIN, E. P., L. L. BAZELYAN, V. V. ZAITSEV, V. O. RAPOPORT, and YA. G. TSYBKO / Multiple Radio Echoes in the Solar Corona **91**, 383
- ACHESON, D. J. / Instability by Magnetic Buoyancy **62**, 23
- ACHONG, A. / Solar Radio Pulsations at Decametric Wavelengths **37**, 477
- ACHONG, A. and C. H. BARROW / Solar Type III Burst Profiles at Decametre-Wave Frequencies. II: Exciter **45**, 467
- ACHONG, A. and P. A. STAHL / SID Flare Production is Independent of Mt. Wilson Magnetic Class **92**, 259
- ACHONG, A., P. A. STAHL, and C. NYACK / SID Flares and Sunspot Morphology **88**, 137
- ACHONG, A., P. A. STAHL, and C. NYACK / SID Flares and Sunspot Morphology (*Errata*) **90**, 203 (**88**, 137)
- ACHONG, A., *see* Barrow, C. H.
- ACHONG, A., *see* Sawyer, C. *et al.*
- ACKERMAN, M. and P. SIMON / Rocket Measurement of Solar Fluxes at 1216 Å, 1450 Å, and 1710 Å **30**, 345
- ACTON, LOREN W. / Lockheed Solar Observatory **6**, 485 (*Report from Solar Institute*)
- ACTON, L. W., W. A. BROWN, M. E. C. BRUNER, B. M. HAISCH, and K. T. STRONG / Transport and Containment of Plasmas, Particles, and Energy within Flares **86**, 79
- ACTON, L. W., R. C. CATURA, A. J. MEYEROTT, C. J. WOLFSON, and J. L. CULHANE / Coronal Survey in X-Rays of OVII and NeIX **26**, 183
- ACTON, L. W., J. L. CULHANE, A. H. GABRIEL, R. D. BENTLEY, J. A. BOWLES, J. G. FIRTH, M. L. FINCH, C. W. GILBRETH, P. GUTTRIDGE, R. W. HAYES, E. G. JOKI, B. B. JONES, B. J. KENT, J. W. LEIBACHER, R. A. NOBLES, T. J. PATRICK, K. J. H. PHILLIPS, C. G. RAPLEY, P. H. SHEATER, J. C. SHERMAN, J. P. STARK, L. A. SPRINGER, R. F. TURNER, and C. J. WOLFSON / The Soft X-Ray Polychromator for the Solar Maximum Mission **65**, 53
- ACTON, L. W., *see* Antonucci, E. *et al.*
- ACTON, L. W., *see* Mosher, J. M.
- ACTON, L. W., *see* Švestka, Z. *et al.*
- ACTON, L. W., *see* Wolfson, C. J. *et al.*
- ACTON, L. W., *see* Wolfson, C. J. *et al.*
- ACTON, L. W., *see* Zaumen, W. T.
- ADAM, J. A. / On the Occurrence of Critical Levels in Solar Magneto-hydrodynamics **52**, 293
- ADAM, J. A., *see* Cally, P. S.
- ADAM, M. G. / The Interpretation of Sunspot Magnetic Field Observations **96**, 27
- ADAMS, G. W., *see* Goedeke, A. D.
- ADAMS, J. and G. W. PNEUMAN / A New

- Technique for the Determination of Coronal Magnetic Fields: A Fixed Mesh Solution to Laplace's Equation using Line-of-Sight Boundary Conditions **46**, 185
- ADAMS, W. M. / Differential Rotation of Photospheric Magnetic Fields Associated with Coronal Holes **47**, 601
- ADAMS, W. M. and F. TANG / Differential Rotation of Short-Lived Solar Filaments **55**, 499
- ADJABSHIRZADEH, A. and S. KOUTCHMY / About the Foreshortening Effect on Sunspot Umbral Dots **75**, 71 (*Research Note*)
- ADKINS, J. M., *see* Howard, R. *et al.*
- ADKINS, M., *see* Tang, F. *et al.*
- AGGARWAL, K. M. / Oscillator Strengths for Optically Allowed Transition in Carbon-Like Ions **90**, 281
- AGGARWAL, K. M. / Line Intensity Ratios of Transitions within the $1s^2 2s^2 2p^2$ Ground Configuration of MgVII **94**, 75
- AGLIZKI, E. V., V. A. BOIKO, A. YA. FAENOV, V. V. KORNEEV, V. V. KRUTOV, S. L. MANDELSTAM, S. A. PIKUZ, U. I. SAFRONOVA, J. A. SYLWESTER, A. M. URNOV, L. A. VAINSHTEIN, and I. A. ZHITNIK / New Satellite Structure of the Solar and Laser Plasma Spectra in Vicinity of the $L\alpha$ (Mg XII) Line **56**, 375
- AGNELLI, G., A. CACCIANI, and M. FOFI / The Magneto-Optical Filter. I: Preliminary Observations in Na D Lines **44**, 509
- AGNELLI, G., A. CACCIANI, and M. FOFI / The Magneto-Optical Filter. I: Preliminary Observations in Na D Lines (*Errata*) **46**, 272 (**44**, 509)
- AGRAWAL, S. P., *see* Venkatesan, D. *et al.*
- AHLUWALIA, H. S., M. ZUBIETA, and M. SCHREIER / The Physical Significance of the Unusual Worldwide Fluctuations of Cosmic-Ray Intensity on July 14–15, 1964 **4**, 453
- AHMAD, I. A. / Coronal $\text{He}^+ \lambda 304$ Radiation **53**, 409
- AHMAD, I. A. and M. R. KUNDU / Microwave Solar Limb Brightening **69**, 273
- AHMAD, I. A. and D. F. WEBB / X-Ray Analysis of a Polar Plume **58**, 323
- AHMAD, I. A. and G. L. WITHBROE / EUV Analysis of Polar Plumes **53**, 397
- AHMAD, I. A., *see* Mullan, D. J.
- AIKENS, R. S., *see* Brault, J. W. *et al.*
- AIKIN, A. C. and J. H. UNDERWOOD / Comments on a Paper by D. Meisel Entitled 'Identification of Solar X-Ray Source Using D-Layer Ionization Behavior during an Eclipse' **11**, 334 (*Research Note*)
- AIME, C. / Statistical Analysis of a Solar Granulation Plate **30**, 15
- AIME, C., J. BORGNINO, F. MARTIN, and G. RICORT / Comments on the Low-Wavenumber Power of Granulation Brightness Fluctuations **53**, 189
- AIME, C., *see* Borgnino, J. *et al.*
- AIME, C., *see* Ricort, G. *et al.*
- AIME, C., *see* Ricort, G. *et al.*
- AJMANOV, A. K. and G. M. NIKOLSKY / The Colour of the Solar Corona and Dust Grains in It **65**, 171
- AJMANOV, A. K., *see* Ajmanova, G. K. *et al.*
- AJMANOVA, G. K., A. K. AJMANOV, and R. A. GULYAEV / Study of the Brightness Distribution across Spicules from Observations of the Spicule Occultation by the Moon at the Partial Solar Eclipse **79**, 323 (*Research Note*)
- AKABANE, K., H. NAKAJIMA, K. OHKI, F. MORIYAMA, and T. MIYAJI / A Flare-Associated Thermal Burst in the mm-Wave Region **33**, 431
- AKASOFU, S.-I. / Magnetosphere and Magnetospheric Substorms (extended abstract) **47**, 321
- AKASOFU, S.-I. / Magnetospheric Substorms and Solar Flares **64**, 333
- AKASOFU, S.-I. / Are Solar Flares a Result of a Sudden Conversion of Magnetic Energy Stored Prior to Their Onset? **71**, 107
- AKASOFU, S.-I. / Passage of the Solar Current Disk and Major Geomagnetic Storms **71**, 175
- AKASOFU, S.-I., P. D. PERRAULT and S. YOSHIDA / The Geomagnetic and Cosmic-Ray Storm of May 25/26, 1967 **8**, 464
- AKASOFU, S.-I., *see* Kan, J. R. *et al.*
- AKASOFU, S.-I., *see* Wagner, J. S. *et al.*
- AKHMEDOV, SH. B., G. B. GELFREIKH, V. M. BOGOD, and A. N. KORZHAVIN / The Measurement of Magnetic Fields in the Solar Atmosphere above Sunspots Using Gyroresonance Emission **79**, 41
- AKHMEDOV, SH. B., G. B. GELFREIKH, F. FÜRSTENBERG, J. HILDEBRANDT, and A. KRÜGER / On the Height Scale of Magnetic Fields above Sunspots Derived from RATAN-600 Observations **88**, 103
- AKIMOV, L. A., *see* Livshits, M. A. *et al.*
- AKINYAN, S. T., E. I. MOGILEVSKI, A. BÖHME, and A. KRÜGER / Spectral Features of Large Type IV Bursts and Interrelation to Solar-Terrestrial Phenomena **20**, 112
- AKITA, K., K. TANAKA, and T. WATANABE / Polarization Measurements Using the Bragg Crystal Spectrometers on HINOTORI **86**, 101
- AKITA, K., *see* Hirayama, T. *et al.*
- AKITA, K., *see* Tanaka, K. *et al.*
- AKITA, K., *see* Watanabe, T. *et al.*

- ALAM, BADRÉ, S. M. RAZAULLAH ANSARI, and ABDUL QAIYUM / Temperature Distribution in the Transition Region and Inner Corona (*Errata*) **67**, 207 (**62**, 93)
- ALAM, B. and S. M. RAZAULLAH ANSARI / Role of the Gaunt Factor in the Derivation of Dielectric Recombination Coefficient **96**, 219
- ALAM, B., S. M. R. ANSARI, and A. QAIYUM / Temperature Distribution in the Transition Region and Inner Corona **62**, 93
- ALAM, B., *see* Ansari, S. M. R.
- ALBREGTSEN, F. and B. N. ANDERSEN / The Effect of Spatial Smearing on Solar Doppler Measurements. I: Mathematical Formulation and Application to Measurements of Solar Rotation **95**, 239
- ALBREGTSEN, F. and T. L. HANSEN / The Wavelength Dependence of Granulation ($0.38\text{--}2.4\mu\text{m}$) **54**, 31 (*Research Note*)
- ALBREGTSEN, F. and P. MALTBY / Solar Cycle Variation of Sunspot Identity **71**, 269
- ALBREGTSEN, F. and P. MALTBY / On the Need for Space Observations of the Umbra/Photosphere Intensity Ratio **74**, 147
- ALBREGTSEN, F., P. B. JORÅS, and P. MALTBY / Limb-Darkening and Solar Cycle Variation of Sunspot Intensities **90**, 17
- ALEXANDER, J. K., H. H. MALITSON, and R. G. STONE / Type III Radio Bursts in the Outer Corona **8**, 388
- ALEXEEV, I. I., A. P. KROPOTKIN, and I. S. VESELOVSKY / On Interplanetary Electric and Magnetic Fields **79**, 385
- ALFVÉN, H. and P. CARLQVIST / Currents in the Solar Atmosphere and a Theory of Solar Flares **1**, 220
- ALIKAYEVA, K. V. / On a Cold Emission in the Solar Corona **41**, 89
- ALIKAYEVA, K. V., *see* Gurtovenko, E. A.
- ALISSANDRAKIS, C. E. / A Spectroscopic Study of Solar Spicules in $H\alpha$, $H\beta$ and K **32**, 345
- ALISSANDRAKIS, C. E. and C. J. MACRIS / A Study of the Fine Structure of the Solar Chromosphere at the Limb **20**, 47
- ALISSANDRAKIS, C. E. and M. R. KUNDU / High Resolution Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths **41**, 119
- ALISSANDRAKIS, C. E., P. LANTOS, and E. NICOLAIDIS / Coronal Structures Observed at Metric Wavelengths with the Nançay Radioheliograph **97**, 267
- ALISSANDRAKIS, C. E., C. J. MACRIS, and TH. G. ZACHARIADIS / Measurements of the Granule-Intergranular Lane Contrast at 5200 Å and 6300 Å **76**, 129
- ALISSANDRAKIS, C. E., *see* Kundu, M. R.
- ALISSANDRAKIS, C. E., *see* Kundu, M. R. *et al.*
- ALISSANDRAKIS, C. E., *see* Macris, C. J.
- ALLAART, M., *see* Kattenberg, A. *et al.*
- ALLEN, C. W. / Systematic Photometry of XUV Images **8**, 72
- ALLEN, M. S. / Supergranular Line Profile Variation of Mg I $\lambda 2852$ **60**, 265 (*Research Note*)
- ALLEN, M. S. / Echelle Observations of C III $\lambda 1909$ and Si III $\lambda 1892$ **64**, 71
- ALLEN, M. S. and H. C. MCALLISTER / Observations of the Mg I and II Resonance Lines in an Active Region **60**, 251
- ALLEN, M. S. and S. MUSMAN / The Location of Exploding Granules **32**, 311 (*Research Note*)
- ALLER, L. H., *see* Ross, J. E.
- ALLER, L. H., *see* Ross, J. E.
- ALLER, L. H., *see* Ross, J. E.
- ALLER, L. H., *see* Ross, John E.
- ALLER, L. H., *see* Ross, John E.
- ALLUM, F. R., R. A. R. PALMEIRA, U. R. RAO, K. G. MCCracken, J. R. HARRIES, and I. PALMER / The Degree of Anisotropy of Cosmic Ray Electrons of Solar Origin **17**, 241
- ALLUM, F. R., R. A. R. PALMEIRA, K. G. MCCracken, U. R. RAO, D. H. FAIRFIELD, and L. J. GLEESON / Cosmic Ray Anisotropies Observed Late in the Decay Phase of Solar Flare Events **38**, 227
- ALLUM, F. R., *see* Bartley, W. C. *et al.*
- ALLUM, F. R., *see* Palmeira, R. A. R.
- ALLUM, F. R., *see* Palmeira, R. A. R. *et al.*
- ALLUM, F. R., *see* Palmer, I. D. *et al.*
- ALLUM, F. R., *see* Rao, U. R. *et al.*
- ALTROCK, Richard C. / A New Method for the Analysis of Equivalent Widths and its Application to Solar Photospheric Oxygen **5**, 260
- ALTROCK, Richard C. / Source Functions of Infrared Fraunhofer Lines from Equivalent Widths **7**, 3
- ALTROCK, Richard C. / Interpretation of Infrared Oxygen Spectroheliograms **7**, 343
- ALTROCK, R. C. / The Formation of Mg I 4571 Å in the Solar Atmosphere. IV: Empirical vs Synthetic Analyses **34**, 37
- ALTROCK, R. C. / The Horizontal Variation of Temperature in the Low Solar Photosphere **47**, 517
- ALTROCK, R. C. and R. C. CANFIELD / Observations of Photospheric Pole-Equator Temperature Differences **23**, 257
- ALTROCK, R. C. and C. J. CANNON / The Formation of Mg I 4571 Å in the Solar Atmosphere. I: A Model Analysis of a One-Dimensional Static Atmosphere **26**, 21

- ALTROCK, R. C. and C. J. CANNON / The Formation of Mg I 4571 Å in the Solar Atmosphere. II: The Effect of One-Dimensional Macroscopic Velocity Fields **29**, 275
- ALTROCK, R. C. and C. J. CANNON / The Formation of Mg I 4571 Å in the Solar Atmosphere. II: The Holweger Solar Model **30**, 31 (*Research Note*)
- ALTROCK, R. C. and C. J. CANNON / The Formation of Mg I 4571 Å in the Solar Atmosphere. V: The Multi-Dimensional Structure of the Photosphere and Low Chromosphere **42**, 289
- ALTROCK, R. C., L. J. NOVEMBER, G. W. SIMON, R. W. MILKEY, and S. P. WORDEN / Heights of Formation of Non-Magnetic Solar Lines Suitable for Velocity Studies **43**, 33
- ALTROCK, R. C., *see* White, O. R. *et al.*
- ALTROCK, RICHARD C. and C. J. CANNON / The Formation of Mg I 4571 Å in the Solar Atmosphere. II: The Effect of One-Dimensional Macroscopic Velocity Fields (*Errata*) **31**, 524 (**29**, 275)
- ALTSCHULER, Martin D. / Electrical Conductivity Gradients in Sunspots **1**, 377
- ALTSCHULER, M. D. / Source of the Solar Flare Energy **47**, 183
- ALTSCHULER, Martin D. and G. NEWKIRK, Jr. / Magnetic Fields and the Structure of the Solar Corona. I: Methods of Calculating Coronal Fields **9**, 131
- ALTSCHULER, M. D. and R. M. PERRY / On Determining the Electron Density Distribution of the Solar Corona from K-Coronameter Data **23**, 410
- ALTSCHULER, M. D., R. H. LEVINE, M. STIX, and J. HARVEY / High Resolution Mapping of the Magnetic Field of the Solar Corona **51**, 345
- ALTSCHULER, Martin D., Carl G. LILLIEQUIST, and Yoshinari NAKAGAWA / A Possible Acceleration Mechanism for a Solar Surge **5**, 366
- ALTSCHULER, Martin D., Yoshinari NAKAGAWA, and Carl G. LILLIEQUIST / Concerning the Origin of Evershed Motion in Sunspots **3**, 466
- ALTSCHULER, MARTIN D., YOSHINARI NAKAGAWA, and CARL G. LILLIEQUIST / Concerning the Origin of Evershed Motion in Sunspots (*Addendum*) **4**, 264 (**3**, 466)
- ALTSCHULER, M. D., D. F. SMITH, P. N. SWARTZTRAUBER, and E. R. PRIEST / The Non-linear Acceleration of a Magnetic Disturbance in the Solar Corona **32**, 153
- ALTSCHULER, M. D., D. E. TROTTER, and F. Q. ORRALL / Coronal Holes **26**, 354
- ALTSCHULER, M. D., D. E. TROTTER, G. NEWKIRK, Jr., and R. HOWARD / The Large-Scale Solar Magnetic Field **39**, 3
- ALTSCHULER, M. D., D. E. TROTTER, G. NEWKIRK, JR., and R. HOWARD / Tabulation of the Harmonic Coefficients of the Solar Magnetic Fields **41**, 225 (*Research Note*)
- ALTSCHULER, M. D., *see* Dulk, G. A.
- ALTSCHULER, M. D., *see* Levine, R. H.
- ALTSCHULER, M. D., *see* Lilliequist, C. G. *et al.*
- ALTSCHULER, M. D., *see* Newkirk, Jr., G.
- ALTSCHULER, M. D., *see* Newkirk, Jr., G. *et al.*
- ALTSCHULER, M. D., *see* Perry, R. M.
- ALTSCHULER, M. D., *see* Uchida, Y. *et al.*
- ALTSCHULER, M. D., *see* Valdez, J.
- ALTYNTSEV, A. T., V. I. KRASOV, and V. M. TOMOZOV / Magnetic Field Energy Dissipation in Neutral Current Sheets **55**, 69
- ALURKAR, S. K. / Note on Solar Plasma Irregularities and Plasma Instabilities **26**, 225
- ALURKAR, S. K. and R. V. BHONSLE / Flare-Time Sudden Enhancements of Low Frequency Field Strength and Associated Meter Wave Solar Radio Bursts **9**, 198
- ALURKAR, S. K., *see* Sawant, H. S. *et al.*
- ALVAREZ, H. / Preliminary Results on the Apparent Size of the Sources of Type III Bursts Observed at Low Frequencies **46**, 483
- ALVAREZ, H. / On the Spectra of Type III Solar Radio Bursts Observed at Low Frequencies **81**, 355
- ALVAREZ, H. and F. T. HADDOCK / Solar Wind Density Model from km-Wave Type III Bursts **29**, 197
- ALVAREZ, H. and F. T. HADDOCK / Decay Time of Type III Solar Bursts Observed at Kilometric Wavelengths **30**, 175
- ALVAREZ, H. and R. P. LIN / Interplanetary Scattering of Fast Solar Electrons Deduced from Type III Bursts Observed at Low Frequencies **46**, 477
- ALVAREZ, H., F. HADDOCK, and R. P. LIN / Evidence for Electron Excitation of Type III Radio Burst Emission **26**, 468
- ALVAREZ, H., F. T. HADDOCK, and W. H. POTTER / Heliographic Longitude Distribution of the Flares Associated with Type III Bursts Observed at Kilometric Wavelengths **31**, 493
- ALVAREZ, H., F. T. HADDOCK, and W. M. POTTER / Kilometer-Wave Type III Burst: Harmonic Emission Revealed by Direction and Time of Arrival **34**, 413
- ALVAREZ, H., R. P. LIN, and S. J. BAME / Fast Solar Electrons, Interplanetary Plasma and km-Wave Type III Radio Bursts Observed from the IMP-6 Spacecraft **44**, 485
- ALVAREZ, H., *see* Fitzenreiter, R. J. *et al.*

- ALVAREZ, H., *see* Haddock, F. T.
- ALVAREZ, M., *see* Billings, D. E.
- AMBROŽ, P. / Planetary Influences on the Large-Scale Distribution of Solar Activity **19**, 480 (*Research Note*)
- AMER, R., *see* El-Raey, M.
- AN, C.-H. / The Effects on the MHD Stability of Field Line Tying to the End Faces of a Cylindrical Magnetic Loop **75**, 19
- ANAGNOSTOPOULOS, G. C., *see* Sarris, E. T. *et al.*
- ANAGNOSTOPOULOS, G. C., *see* Sarris, E. T. *et al.*
- ANAND, K. C., R. R. DANIEL, and S. A. STEPHENS / Cross-Sections for the (^4He , ^3H) Stripping Reaction on Fe, Al, C and Glass Targets at an Energy of 120 MeV **8**, 152 (*Research Note*)
- ANASTASSIADES, Michael and Constantin MACRIS / The mm Wave Outbursts of November 1 and 2, 1968 **10**, 188
- ANDERSEN, B. N. / Limb Effect of Solar Absorption Lines. Observational Method and Results for Fe I 557.6 nm **94**, 49
- ANDERSEN, B. N. / Straylight Correction to Doppler Rotation Measurements **98**, 173 (*Research Note*)
- ANDERSEN, B. N., S. BARTH, V. HANSTEEN, T. LEIFSEN, P. B. LILJE, and F. VIKANES / The Limb Effect of the K I Resonance Line, 769.9 nm **99**, 17 (*Research Note*)
- ANDERSEN, B. N., *see* Albregtsen, F.
- ANDERSEN, B. N., *see* Engvold, O. *et al.*
- ANDERSEN, T. and G. SØRENSEN / Determinations of Atomic Lifetimes for the Rare Earth Ions: Pr II, Tm II, Lu II **38**, 343
- ANDERSEN, T., P. PETERSEN, and Ø. HAUGE / The Solar Hafnium Abundance **49**, 211
- ANDERSEN, T., O. POULSEN, P. S. RAMANUJAM, and A. P. PETKOV / Lifetimes of Some Excited States in the Rare Earths: La II, Ce II, Pr II, Nd II, Sm II, Yb I, Yb II, and Lu II **44**, 257
- ANDERSON, C. R., *see* Olsen, K. H. *et al.*
- ANDERSON, K. A. / Electrons and Protons in Long-Lived Streams of Energetic Solar Particles **6**, 111
- ANDERSON, K. A. / Lifetime of Solar Particles in Coronal Storage Regions **27**, 442
- ANDERSON, K. A. and W. A. MAHONEY / Hard Solar Flare X-Ray Bursts on 8 December 1970 **35**, 419
- ANDERSON, K. A., *see* Kahler, S. W.
- ANDERSON, K. A., *see* Lin, R. P.
- ANDERSON, K., *see* Klein, L. *et al.*
- ANGERHOFER, P. E., *see* Kundu, M. R.
- ANNIS, M. / Welcoming Address (at Flare Build-up Study Workshop) **47**, 13
- ANSARI, S. M. R. and B. ALAM / Enhancement of the Solar X-Ray Line Intensities Due to Dielectric Recombination as an Excitation Process **41**, 97
- ANSARI, S. M. R., *see* Alam, B. *et al.*
- ANTIA, H. M. and S. M. CHITRE / Waves in the Sunspot Umbra **63**, 67
- ANTIA, H. M. and S. M. CHITRE / Stability of a Steady Vertical Flow in a Viscous Fluid **66**, 71
- ANTIA, H. M., S. M. CHITRE, and D. M. KALE / Overstabilization of Acoustic Modes in a Poly-tropic Atmosphere **56**, 275
- ANTIA, H. M., S. M. CHITRE, and M. H. GOKHALE / Waves in the Sunspot Penumbra **60**, 31
- ANTIA, H. M., S. M. CHITRE, and D. NARASIMHA / Overstabilization of Acoustic Modes and the Solar Five-Minute Oscillations **77**, 303
- ANTIA, H. M., S. M. CHITRE, and S. K. PANDEY / Granulation and Supergranulation as Convective Modes in the Solar Envelope **70**, 67
- ANTIOCHOS, S. K. and P. A. STURROCK / Influence of Magnetic Field Structure on the Conduction Cooling of Flare Loops **49**, 359
- ANTONUCCI, E. / Eleven-Years Inversion of the Green Corona Emission **34**, 471
- ANTONUCCI, E., A. H. GABRIEL, and B. E. PATCHETT / Oscillations in EUV Emission Lines during a Loop Brightening **93**, 85
- ANTONUCCI, E., A. H. GABRIEL, L. W. ACTON, J. L. CULHANE, J. G. DOYLE, J. W. LEIBACHER, M. E. MACHADO, L. E. ORWIG, and C. G. RAPLEY / Impulsive Phase of Flares in Soft X-Ray Emission **77**, 107
- ANTONUCCI, E. and B. R. DENNIS / Observation of Chromospheric Evaporation during the Solar Maximum Mission **86**, 67
- ANTONUCCI, E. and M. A. DODERO / Coronal Rotation Dependence on the Solar Cycle Phase **53**, 179
- ANTONUCCI, E. and M. A. DODERO / Rotation and Lifetime of Coronal Features **62**, 107
- ANTONUCCI, E. and T. L. DUVAL / Solar Cycle of Large-Scale Coronal Structures **38**, 439
- ANTONUCCI, E. and L. SVALGAARD / Rigid and Differential Rotation of the Solar Corona **34**, 3
- ANTONUCCI, E. and L. SVALGAARD / Green Corona and Solar Sector Structure **36**, 115
- ANTONUCCI, E., L. AZZARELLI, P. CASALINI, and S. CERRI / Chromospheric Rotation during 1962–73, Years of Declining Activity **53**, 519
- ANTONUCCI, E., L. AZZARELLI, P. CASALINI, S. CERRI, and F. DENOTH / Chromospheric Rotation. I: Dependence on the Lifetime of Chromospheric Features **61**, 9
- ANTONUCCI, E., L. AZZARELLI, P. CASALINI, S. CERRI, and F. DENOTH / Chromospheric Rotation. II: Dependence on the Size of Chromospheric Features **63**, 17

- ANTONUCCI, E., G. CINI CASTAGNOLI, and M. A. DODERO / Solar Effects of the Cosmic Ray Intensity Observed at 70 M.W.E. Underground **17**, 491
- ANTONUCCI, E., G. CINI CASTAGNOLI, and M. A. DODERO / Effects of Active Solar Regions on the Galactic Cosmic Ray Intensity **20**, 497
- ANTONUCCI, E., B. R. DENNIS, A. H. GABRIEL, and G. M. SIMNETT / Initial Phase of Chromospheric Evaporation in a Solar Flare **96**, 129
- ANTONUCCI, E., *see* Chiuderi-Drago, F. *et al.*
- ANTONUCCI, E., *see* Gabriel, A. H. *et al.*
- ANTONUCCI, E., *see* MacNeice, P. *et al.*
- ANTONUCCI, E., *see* Shibasaki, K. *et al.*
- ANZER, U. / The Stability of Force-Free Magnetic Fields with Cylindrical Symmetry in the Context of Solar Flares **3**, 298
- ANZER, Ulrich / Remarks on my Paper about Force-Free Magnetic Fields and Solar Flares **4**, 101 (*Research Note*)
- ANZER, U. / Stability Analysis of the Kippenhahn-Schlüter Model of Solar Filaments **8**, 37
- ANZER, U. / A Method to Calculate Electric Currents in Quiescent Prominences **24**, 324
- ANZER, U. / Why Syrovatskii's Mechanism of Dynamic Dissipation of Magnetic Fields Does Not Work **30**, 459
- ANZER, U. / Can Coronal Loop Transients Be Driven Magnetically? **57**, 111
- ANZER, U. and G. W. PNEUMAN / Magnetic Reconnection and Coronal Transients **79**, 129
- ANZER, U. and A. I. POLAND / Mass Flow in Loop Type Coronal Transients **61**, 95
- ANZER, U. and E. PRIEST / Remarks on the Magnetic Support of Quiescent Prominences **95**, 263
- ANZER, U. and E. TANDBERG-HANSEN / A Model for Quiescent Prominences with Helical Structure **11**, 61
- ANZER, U., *see* Poland, A.
- ANZER, U., *see* Tandberg-Hanssen, E.
- APPENZELLER, I., and E. H. SCHRÖTER / A Statistical Analysis of Large-Scale Brightness and Velocity Fluctuations in the Solar Atmosphere **4**, 131
- APPENZELLER, J., *see* Unno, W. *et al.*
- ARBUZOV, S. I., *see* Kobrin, M. M. *et al.*
- ARCHER, J. W., *see* Labrum, N. R. *et al.*
- ARENA, P., *see* Landolfi, M. *et al.*
- ARGO, H. V., J. A. BERGEY, W. D. EVANS, and S. SINGER / 16–40 Å Coronal X-Ray Emission During the 12 November 1966 Eclipse **5**, 551
- ARMSTRONG, J. W., *see* Bird, M. K. *et al.*
- ARMSTRONG, T. P., S. M. KRIMIGIS, D. HOVESTADT, B. KLECKER, and G. GLOECKER / Observation of Temporal and Spatial Variations in the Fe/O Charge Composition of the Solar Particle Event of 4 July, 1974 **49**, 395
- ARNOLDY, R. L., S. R. KANE, and J. R. WINCKLER / A Study of Energetic Solar Flare X-Rays **2**, 171
- ARNQUIST, W. N. and D. H. MENZEL / Coronal Polarization and Intensity at the November 12, 1966 Solar Eclipse **11**, 82
- ARNQUIST, N., DONALD H. MENZEL, and FERNANDO DE ROMANA / Coronal Polarization and Intensity at the November 12, 1966 Solar Eclipse (*Errata*) **12**, 510 (**11**, 82)
- ARTZNER, GUY E., *see* Grossmann-Doerth, Ulrich *et al.*
- ARTZNER, G., *see* Beckers, J. M.
- ARTZNER, G., *see* Kneer, F. *et al.*
- ARTZNER, G. E., *see* Mouradian, Z. *et al.*
- ARTZNER, G., *see* Vial, I. C. *et al.*
- ARTZNER, G., *see* Vial, J. C. *et al.*
- ASBRIDGE, J. R., S. J. BAME, and W. C. FELDMAN / Abundance Differences in Solar Wind Double Streams **37**, 451
- ASBRIDGE, J. R., *see* Bame, S. J. *et al.*
- ASBRIDGE, J. R., *see* Bame, S. J. *et al.*
- ASBRIDGE, J. R., *see* Hirshberg, J. *et al.*
- ASBRIDGE, J. R., *see* Sheeley, N. R. *et al.*
- ASCHWANDEN, M. J., H. J. WIEHL, A. O. BENZ, and S. R. KANE / Correlation of Solar Decimetric Radio Bursts with X-Ray Flares **97**, 159
- ASCHWANDEN, M. J., *see* Wiehl, H. J. *et al.*
- ATHAY, R. Grant / Boundary Conditions on Model Solar Chromospheres **9**, 51
- ATHAY, R. G. / Emission Cores in H and K Lines. V: Asymmetries in K₂ and K₃ **11**, 347
- ATHAY, R. G. / Velocity Effects on the Profiles of H α and Two Fe I Lines **12**, 175
- ATHAY, R. G. / Coronal Density and Temperature Gradients **29**, 357
- ATHAY, R. G. / Are EUV Bursts Members of the Flare Family? **93**, 123
- ATHAY, R. G. / The Chromosphere and Transition Region – Current Status and Future Directions of Models **100**, 257 (*Invited Review*)
- ATHAY, R. Grant and A. SKUMANICH / Emission Cores in H and K Lines. I: The Optically Thick Chromosphere **3**, 181
- ATHAY, R. Grant and A. SKUMANICH / Emission Cores in H and K Lines. IV: Center-to-Limb Variation **4**, 176
- ATHAY, R. G., B. W. LITES, O. R. WHITE, and J. W. BRAULT / A First Order Analysis of Variations of the Limb Darkening and the Shapes for Solar Fraunhofer Lines **24**, 18
- ATHAY, R. G., D. MIHALAS, and R. A. SHINE / An Archetype Hydrogen Atmosphere Problem **45**, 15

- ATHAY, R. G., C. W. QUERFELD, R. N. SMARTT, E. LANDI DEGL'INNOCENTI, and V. BOMMIER / Vector Magnetic Fields in Prominences. III. He I D₃ Stokes Profile Analysis for Quiescent and Eruptive Prominences **89**, 3
- ATHAY, R. GRANT, O. R. WHITE, B. W. LITES, and E. C. BRUNER JR. / Impulsive EUV Bursts Observed in CIV with OSO-8 **66**, 357
- ATHAY, R. G., *see* Canfield, R. C.
- ATHAY, R. G., *see* Henze, W. *et al.*
- ATHAY, R. Grant, *see* Kuperus, Max
- ATHAY, R. G., *see* Nicolas, K. R. *et al.*
- ATHAY, R. G., *see* Poland, A. *et al.*
- ATTOLINI, M. R., M. GALLI, and G. CINI CASTAGNOLI / On the R_z-Sunspot Relative Number Variations **95**, 391
- ATTWOOD, C. F., *see* Stewart, R. T. *et al.*
- AUER, L. H., J. N. HEASLEY, and L. L. HOUSE / The Determination of Vector Magnetic Fields from Stokes Profiles **55**, 47
- AURASS, H. and G. P. CHERNOV / Zebra Pattern Flux Density Observation during the Type IV Burst on October 12, 1981 **84**, 339
- AURASS, H., J. KURTHS, and W. VOIGT / Some Results of a Statistical Analysis of the S-Component of Solar Radio Emission **60**, 361
- AVERY, L. W. / The Formation of the Ca II K Line in a Spinning Spicule **13**, 301
- AVERY, L. W. / Observations of Quasiperiodic Variations in the Solar Flux at 10.7 GHz **49**, 141
- AVERY, Lorne W. and Lewis L. HOUSE / A Solar Spicule Model Based Upon Calcium II K Line Radiative Transfer Studies **10**, 88
- AVIGNON, Y., P. LANTOS, F. PALAGI, and P. PATRIARCHI / The Quiet Sun Brightness Temperature at 408 MHz **45**, 141
- AVIGNON, Y., *see* Axisa, F. *et al.*
- AVIGNON, Y., *see* Chiuderi Drago, F. *et al.*
- AVIGNON, Y., *see* Mein, N.
- AXFORD, W. I. / The Solar Wind **100**, 575 (*Invited Review*)
- AXFORD, W. I., *see* Fisk, L. A.
- AXFORD, W. I., *see* Fisk, L. A.
- AXFORD, W. I., *see* Leer, E.
- AXISA, F. / On the Role of the Magnetic Configuration of Flares for Production of Type III Solar Radio Bursts **35**, 207
- AXISA, F., Y. AVIGNON, M. J. MARTRES, M. PICK, and P. SIMON / Solar Coronal Streamers Observed at 169 MHz with the Nançay East-West Radioheliograph **19**, 110
- AXISA, F., M. J. MARTRES, M. PICK and I. SORU-ESCAUT / On Some Transient H α Features Associated with Metric Type III Bursts **29**, 163
- AXISA, F., *see* Pick, M. *et al.*
- AYRES, T. R. / A Comparison of Synthetic and Measured Solar Continuum Intensities and Limb Darkening Coefficients **57**, 19
- AYRES, T. R. / Does H⁻ Truly Cool the Solar Chromosphere? **68**, 125
- AYRES, T. R. and L. TESTERMAN / The Center-to-Limb Behavior of Ca I λ 6573 and [Ca II] λ 7324 **60**, 19
- AYRES, T. R., *see* Noyes, R. W. *et al.*
- AZZARELLI, L., P. L. CASALINI, S. CERRI, R. FALCIANI, G. ROBERTI, and L. A. SMALDONE / Some Results Concerning the Automatic Photometry of Photographic Chromospheric Images **71**, 247
- AZZARELLI, L., *see* Antonucci, E. *et al.*
- AZZARELLI, L., *see* Antonucci, E. *et al.*
- AZZARELLI, L., *see* Antonucci, E. *et al.*
- BABAYEV, A. H., *see* Guseinov, R. E. *et al.*
- BABIN, A. N. and A. N. KOVAL / On the Fine Structure of Polarized Elements in Solar Flares and Moustaches **98**, 159 (*Research Note*)
- BACHMANN, G., K. PFLUG, and J. STAUDE / Europium and Lanthanum in Sunspot and in the Undisturbed Photosphere **15**, 113
- BADALYAN, O. G. and M. A. LIVSHITS / Turbulent Velocity in Undisturbed and Active Photosphere **22**, 297
- BADALYAN, O. G., M. A. LIVSHITS, and J. SYKORA / Structure of the Inner Corona Derived from Observations of the Eclipse of 16 February 1980 **93**, 143
- BADELYAN, O. G., *see* Livshits, M. A. *et al.*
- BAETS, P. DE, G. BRASSEUR, and P. C. SIMON / Chemical Response of the Middle Atmosphere to Solar Variations **74**, 349
- BAGGETT, W. E., *see* Beebe, H. A. *et al.*
- BAGGETT, W., *see* Yun, H. S. *et al.*
- BAGROV, A., *see* Fisher, R. R. *et al.*
- BAHCALL, J. N. / The Solar Neutrino Problem **100**, 53 (*Invited Review*)
- BAI, T. / Determination of the Source Height and Anisotropy of Solar Hard X-Rays by Measurements with Good Time Resolution **59**, 141 (*Research Note*)
- BAI, T. / Iron K α -Fluorescence in Solar Flares: A Probe of the Photospheric Iron Abundance **62**, 113
- BAI, T. / Iron K α -Fluorescence in Solar Flares: a Probe of the Photospheric Iron Abundance (*Errata*) **64**, 417 (**62**, 113)
- BAI, T. and R. RAMATY / Gamma-Ray and Microwave Evidence for Two Phases of Acceleration in Solar Flares **49**, 343

- BAI, T., B. R. DENNIS, A. L. KIPLINGER, L. E. ORWIG, and K. J. FROST / Characteristics of Gamma-Ray Line Flares as Observed in Hard X-Ray Emissions and Other Phenomena **86**, 401
- BAIADA, E. and R. MERIGHI / The Revival of Solar Activity after Maunder Minimum in Reports and Observations of E. Manfredi **77**, 357
- BAIRD, G. A., G. G. BELL, S. P. DUGGAL, and M. A. POMERANTZ / Neutron Monitor Observations of High-Energy Solar Particles during the New Cycle **2**, 491
- BAKER, K. B. and M. D. PAPAGIANNIS / Correlation of High Latitude Coronal Holes with Solar Wind Streams Far above or below the Ecliptic **78**, 365
- BAKER, K. B., *see* Papagiannis, M. D.
- BAKSHI, P. and G. KALMAN / Possible Spectral Diagnostics for Turbulent Electric Fields in Solar Flares **47**, 367
- BALASUBRAHMANYAN, V. K. / Solar Activity and the 11-Year Modulation of Cosmic Rays **7**, 39
- BALASUBRAHMANYAN, V. K. and D. VENKATESAN / Solar Activity and Planetary Luminosity **19**, 257
- BALASUBRAHMANYAN, V. K. and D. VENKATESAN / 27-Day Recurrence and Long Term Modulation of Cosmic Ray Intensity **20**, 186 (*Research Note*)
- BALASUBRAHMANYAN, V. K. and D. VENKATESAN / Solar Activity, 27-Day Variation and Long Term Modulation of Cosmic Ray Intensity **11**, 151 (*Research Note*)
- BALASUBRAMANIAM, K. S., P. VENKATAKRISHNAN, and J. C. BHATTACHARYYA / Measurement of Vector Magnetic Fields. I: Theoretical Approach to the Instrumental Polarisation of the Kodaikanal Solar Tower **99**, 333
- BALLESTER, J. L. / A Note on Magnetic Fields and Electric Currents in Solar Prominences **94**, 151 (*Research Note*)
- BALLESTER, J. L. and J. KLECZEK / Kinematics of Solar Prominences **87**, 261
- BALLESTER, J. L. and J. KLECZEK / Prominence Motions and Their Implications for Magnetic Fields **90**, 37
- BALLIF, JAE R., *see* Winters, John B.
- BALOGH, A., P. C. HEDGECOCK, R. J. HYND, and J. SEAR / Propagation of Low Energy Protons Associated with the 24 January 1969 Solar Flare **20**, 150
- BALOGH, A., *see* Webb, S. *et al.*
- BALTHASAR, H. / On the Depth Dependence of the Solar Rotation Velocity Determined from Fraunhofer Lines **84**, 371
- BALTHASAR, H. / Asymmetries and Wavelengths of Solar Spectral Lines and the Solar Rotation Determined from Fourier-Transform Spectra **93**, 219
- BALTHASAR, H. / On the Contribution of Horizontal Granular Motions to Observed Limb-Effect Curves **99**, 31
- BALTHASAR, H. and M. SCHÜSSLER / Preferred Longitudes of Sunspot Groups and High-Speed Solar Wind Streams: Evidence for a 'Solar Memory' **87**, 23
- BALTHASAR, H. and M. SCHÜSSLER / Evidence for the 22-Year-Cycle in the Longitudinal Distribution of Sunspots **93**, 177 (*Research Note*)
- BALTHASAR, H. and E. WIEHR / Umbral Oscillations Measured in the Stokes-V Inversion Point **94**, 99
- BALTHASAR, H. and H. WÖHL / On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. II: Systematic Effects Caused by the Wilson Depression **88**, 71
- BALTHASAR, H., G. LÜSTIG, and H. WÖHL / On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. III: Effects Caused by Wrong Solar Image Radii and their Corrections **91**, 55
- BALTHASAR, H., M. SCHÜSSLER, and H. WÖHL / On Changes of the Rotation Velocities of Stable, Recurrent Sunspots and Their Interpretation with a Flux Tube Model **76**, 21
- BALTHASAR, H., *see* Wiehr, E. *et al.*
- BALWANZ, W. W., *see* Lee, T. S.
- BALZ, P., *see* Elwert, G. *et al.*
- BAME, S. J., J. R. ASBRIDGE, W. C. FELDMAN, and P. D. KEARNEY / The Quiet Corona: Temperature and Temperature Gradient **35**, 137
- BAME, S. J., J. R. ASBRIDGE, W. C. FELDMAN, M. D. MONTGOMERY, and P. D. KEARNEY / Solar Wind Heavy Ion Abundances **43**, 463
- BAME, S. J., J. R. ASBRIDGE, W. C. FELDMAN, E. FENIMORE, and J. T. GOSLING / Solar Wind Heavy Ions from Flare-Heated Coronal Plasma **62**, 179
- BAME, S. J., *see* Alvarez, H. *et al.*
- BAME, S. J., *see* Asbridge, J. R. *et al.*
- BAME, S. J., *see* Borrini, G. *et al.*
- BAME, S. J., *see* Hirshberg, J. *et al.*
- BAME, S. J., *see* Sheeley, N. R. *et al.*
- BANDIERA, R., *see* Chiuderi-Drago, F. *et al.*
- BANIN, V. G. / An Explanation of the Electron Density Value in Solar Flares **5**, 127 (*Research Note*)
- BANOS, G. / L'éruption d'importance 2 du 4 octobre 1965 **1**, 397
- BANOS, G. / Solar Spicules Observed through a K-Filter **32**, 337
- BANOS, G. I. and C. J. MACRIS / New Obser-

- ational Results for the Solar Chromosphere **12**, 106
- BANOS, G., *see* Fang, C. *et al.*
- BAPPU, M. K. V. / Solar Physics at Kodaikanal **1**, 151 (*Report from Solar Institute*)
- BAPPU, M. K. V. and K. R. SIVARAMAN / Some Characteristics of the Solar Wind Inferred from the Study of Sodium Emission from Cometary Nuclei **10**, 496
- BAPPU, M. K. V. and K. R. SIVARAMAN / K Emission-Line Widths and the Solar Chromosphere **17**, 316
- BAPPU, M. K. V., J. C. BHATTACHARYYA, and K. R. SIVARAMAN / On Emission Lines of Hydrogen, Helium and Ionized Calcium Seen on a Coronal Spectrogram of the March 7, 1970 Eclipse **26**, 366
- BAPPU, M. K. V., V. M. GRIGORJEV, and V. E. STEPANOV / On the Development of Magnetic Fields in Active Regions **4**, 409
- BAPPU, M. K. V., *see* Singh, J.
- BAR, V., *see* Rust, D. M.
- BAR, V., *see* Zach, R.
- BARAMBON, C. and E. A. MÜLLER / On Asymmetries of Solar Spectral Lines **64**, 201
- BARBOSA, D. D. / Linear Force-Free Fields in the Lower Corona **56**, 55
- BARBOSA, D. D. / Is There a Limit on Solar Flare Proton Fluxes? **67**, 181
- BARCUS, J. R. / Solar Protons $E > 100$ MeV Incident over Antarctica during January-February 1967 **8**, 186
- BARKER, E. S., *see* Schorn, R. A. *et al.*
- BARNDEN, L. R. / Cosmic Ray Modulation Produced by Radial Density Gradients in the Interplanetary Medium **18**, 165
- BAROUCH, E., M. GROS, and P. MASSE / The Solar Longitude Dependence of Proton Event Delay Time **19**, 483
- BARROW, C. H. and A. ACHONG / Solar Type III Burst Profiles at Decametre-Wave Frequencies. I: Observations **45**, 459
- BARROW, C. H., R. S. FLAGG, and M. PERRENOUD / Millisecond Structures in Solar Radio Emission Close to 264 MHz **90**, 111
- BARROW, C. H., *see* Achong, A.
- BARROW, C. H., *see* Benz, A. O. *et al.*
- BARTH, S., *see* Andersen, B. N. *et al.*
- BARTLEY, W. C., K. G. MCCracken, U. R. RAO, J. R. HARRIES, R. A. R. PALMEIRA, and F. R. ALLUM / An Instrument to Measure Anisotropies of Cosmic Ray Electrons and Protons for the Explorer 34 Satellite **17**, 218
- BARTLEY, W. C., *see* Rao, U. R. *et al.*
- BARTOE, J.-D. F., *see* Brueckner, G. E.
- BARTOE, J.-D. F., *see* Nicolas, K. R. *et al.*
- BARTOE, J. D. F., *see* Tousey, R. *et al.*
- BARTOE, J.-D. F., *see* Vanhoosier, M. E. *et al.*
- BARTSCH, R. / The East-West Asymmetry in the Number of Spot-Groups in Relation to Their Classification **30**, 93
- BASCHEK, Bodo, *see* Müller, Edith A.
- BASELYAN, L. L. and V. G. SINITSIN / Scattering of Radiowaves from Cosmic Sources in the Solar Corona **17**, 129
- BASELYAN, L. L., N. YU. GONCHAROV, V. V. ZAITSEV, V. A. ZINICHEV, V. O. RAPOPORT, and YA. G. TSYBKO / Frequency and Time Splitting of Decameter Solar Radio Bursts. II: Chains **39**, 23
- BASELYAN, L. L., N. YU. GONCHAROV, V. V. ZAITSEV, V. A. ZINICHEV, V. O. RAPOPORT, and YA. G. TSYBKO / Frequency and Time Splitting of Decameter Solar Radio Bursts. I: Elementary Events **39**, 213
- BASELYAN, L. L., *see* Abranin, E. P. *et al.*
- BASHKIRTSEV, V. S. and G. P. MASHNICH / Oscillatory Processes in Prominences **91**, 93
- BASHKIRTSEV, V. S., N. I. KOBANOV, and G. P. MASHNICH / The Observations of 80-min Oscillations in the Quiescent Prominences **82**, 443
- BASTIAN, T. S., *see* Dulk, G. A. *et al.*
- BASU, D. / Solar Neutrino and Solar Particles **81**, 363 (*Research Note*)
- BASU, D. and A. E. COVINGTON / An Index of Impulsiveness for 2800 MHz Impulsive Solar Noise Bursts **5**, 102
- BASU, D., *see* Kaufmann, P. *et al.*
- BATCHELOR, D. A., *see* Wiehl, H. J. *et al.*
- BATES, B. and M. W. McDOWELL / A Compact Grating Spectroheliograph for the MgII Resonance Lines **23**, 26
- BATES, J. R. / A Dynamical Mechanism through Which Variations in Solar Ultraviolet Radiation Can Influence Tropospheric Climate **74**, 399
- BATISTONI, P., G. EINAUDI, and C. CHIUDERI / Resistive Instabilities in Coronal Conditions **97**, 309
- BATSTONE, R. M., K. EVANS, J. H. PARKINSON, and K. A. POUNDS / Further X-Ray Spectra of Solar Active Regions **13**, 389
- BAUM, P. J. and A. BRATENAHL / Laboratory Solar Flare Experiments **47**, 331
- BAUM, P. J. and A. BRATENAHL / Flux Linkages of Bipolar Sunspot Groups: a Computer Study **67**, 245
- BAUM, P. J., A. BRATENAHL, G. CROCKETT, and G. KAMIN / Magnetic Flux of Colinear Bipolar Spot Pairs **62**, 53

- BAUM, P. J., *see* Bratenahl, A.
- BAUM, P. J. (ed.), *see* Sturrock, P. A. *et al.* (eds.)
- BAUMBACK, M. M., W. S. KURTH, and D. A. GURNETT / Direction-Finding Measurements of Type III Bursts in Both Elevation and Azimuth (abstract only) **46**, 475
- BAUMBACK, M. M., W. S. KURTH, and D. A. GURNETT / Direction-Finding Measurements of Type III Radio Bursts out of the Ecliptic Plane **48**, 361
- BAUR, T. G., D. E. ELMORE, R. H. LEE, C. W. QUERFELD, and S. R. ROGERS / Stokes II - A New Polarimeter for Solar Observations **70**, 395
- BAUR, T. G., L. L. HOUSE, and H. K. HULL / A Spectrum Scanning Stokes Polarimeter **65**, 111
- BAUR, TH. G., *see* House, L. L. *et al.*
- BAVASSANO, B., M. DOBROWOLNY, and G. MORENO / Local Instabilities of Alfvén Waves in High Speed Streams **57**, 445
- BAVASSANO, B., M. DOBROWOLNY, G. FANFONI, F. MARIANI, and N. F. NESS / Statistical Properties of MHD Fluctuations Associated with High-Speed Streams from Helios-2 Observations **78**, 373
- BAVASSANO, B., *see* Dobrowolny, M. *et al.*
- BAVASSANO, B., *see* Mariani, F. *et al.*
- BAZELYAN, L. L., N. YU. GONCHAROV, V. V. ZAITSEV, V. A. ZINICHEV, V. O. RAPOPORT, and YA. G. TSYBKO / Collisionless Deceleration of Fast Electron Streams in the Solar Coronal Plasma **52**, 141
- BAZELYAN, L. L., *see* Abranin, E. P. *et al.*
- BAZELYAN, L. L., *see* Abranin, E. P. *et al.*
- BAZELYAN, L. L., *see* Abranin, E. P. *et al.*
- BECKER, R. H., *see* Kundu, M. R. *et al.*
- BECKER, R. H., *see* Kundu, M. R. *et al.*
- BECK, R. O., *see* Neidig, D. F.
- BECKERS, J. M. / High-Resolution Measurements of Photosphere and Sunspot Velocity and Magnetic Fields Using a Narrow-Band Birefringent Filter **3**, 258
- BECKERS, J. M. / Solar Spicules (*Invited Review Paper*) **3**, 367
- BECKERS, J. M. / Principles of Operation of Solar Magnetographs **5**, 15
- BECKERS, J. M. / Photospheric Brightness Differences Associated with the Solar Supergranulation **5**, 309
- BECKERS, J. M. / Principles of Operation of Solar Magnetographs (*Errata*) **6**, 168 (**5**, 25)
- BECKERS, J. M. / The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting (*Errata*) **15**, 507 (**9**, 372)
- BECKERS, J. M. / The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. I: The Zeeman Triplet **9**, 372
- BECKERS, J. M. / The Profiles of Fraunhofer Lines in the Presence of Zeeman Splitting. II: Zeeman Multiplets for Dipole and Quadrupole Radiation **10**, 262
- BECKERS, J. M. / The Maximum Polarization for Resonance Scattering **37**, 351 (*Research Note*)
- BECKERS, J. M. and G. ARTZNER / High Resolution Spectroscopy of the Disk Chromosphere. III: Upward Moving Disturbances as Observed in the Ca II K-Line Wings **37**, 309
- BECKERS, J. M. and E. CHIPMAN / The Profile and Polarization of the Coronal $\text{L}\alpha$ Line **34**, 151
- BECKERS, J. M. and R. W. MILKEY / The Limb Response Function of Stellar Atmospheres and the Effective Depth of Line Formation **43**, 22
- BECKERS, J. M. and R. A. MORRISON / The Interpretation of Velocity Filtergrams. III: Velocity Fields Inside Solar Granules **14**, 280
- BECKERS, J. M. and G. D. NELSON / Some Comments on the Limb Shift of Solar Lines. II: The Effect of Granular Motions **58**, 243
- BECKERS, J. M. and R. L. PARNELL / The Interpretation of Velocity Filtergrams. II: The Velocity and Intensity Field of the Central Solar Disk **9**, 39
- BECKERS, J. M. and E. H. SCHRÖTER / The Intensity, Velocity and Magnetic Structure of the Sunspot Region. I: Observational Techniques and Properties of Magnetic Knots **4**, 142
- BECKERS, J. M. and E. H. SCHRÖTER / On the Relation between the Photospheric Intensity, Velocity and Magnetic Fields **4**, 165 (*Research Note*)
- BECKERS, J. M. and E. H. SCHRÖTER / The Intensity, Velocity and Magnetic Structure of the Sunspot Region. II: Some Properties of Umbrae and Dots **4**, 303
- BECKERS, J. M. and E. H. SCHRÖTER / The Intensity, Velocity and Magnetic Structure of the Sunspot Region. III: On the Origin of the Apparent π -Component in Sunspot Umbrae **22**
- BECKERS, J. M. and E. H. SCHRÖTER / The Intensity, Velocity and Magnetic Structure of the Sunspot Region. IV: Properties of a Unipolar Sunspot **10**, 384
- BECKERS, J. M. and R. B. SCHULTZ / Oscillatory Motions in Sunspots **27**, 61
- BECKERS, J. M. and J. O. STENFLO / Solar Magnetic-Field Measurements using Babine Compensators **6**, 480 (*Research Note*)
- BECKERS, J. M. and Paul E. TALLANT / Chromospheric Inhomogeneities in Sunspot Umbrae **351**
- BECKERS, J. M. and W. R. TAYLOR / Some Comments on the Limb Shift of Solar Lines. II

- Variation of Limb Shift with Solar Latitude, across Plages, and across Supergranules **68**, 41
- BECKERS, J. M. and P. DE VEGVAR / Some Comments on the Limb Shift of Solar Lines. I: The Effect of Pressure Shifts on Iron Lines in the Solar Atmosphere **58**, 7
- BECKERS, J. M. and W. J. WAGNER / The Polarization of Coronal Emission Lines **21**, 439
- BECKERS, J. M., H. A. MAUTER, G. R. MANN, and D. R. BROWN / High Resolution Spectroscopy of the Disk Chromosphere. I: Observing Procedures **25**, 81
- BECKERS, J. M., *see* Canfield, R. C. *et al.*
- BECKERS, J. M., *see* Hagyard, M. J. *et al.*
- BECKERS, J. M., *see* Henze, W., Jr. *et al.*
- BECKERS, J. M., *see* Kjeldseth Moe, Olav *et al.*
- BECKERS, J. M., *see* Krall, K. R. *et al.*
- BECKERS, J. M., *see* Lynch, D. K. *et al.*
- BECKERS, J. M., *see* Noyes, R. W.
- BECKERS, J. M., *see* Parnell, R. L.
- BECKERS, J. M., *see* Pasachoff, Jay M.
- BECKERS, J. M. (ed.), *see* Sturrock, P. A. *et al.* (eds.)
- BECKERS, J. M., *see* Wilson, P. D. *et al.*
- BECKERS, J. M., *see* Woodgate, B. E. *et al.*
- BECKERS, J. M., *see* Worden, S. P. *et al.*
- BECKERS, J., *see* Henoux, J.-C. *et al.*
- BECKMAN, J. E. and C. D. CLARK / Solar Enhancements at 1.2 mm Wavelength **16**, 87
- BECKMAN, J. E. and C. D. CLARK / Studies of the Solar Chromosphere from Millimetre to Sub-Millimetre Observations. I: Isophotometric Mapping **29**, 25
- BECKMAN, J. E., C. D. CLARK, and J. ROSS / Studies of the Solar Chromosphere from Millimetre and Sub-Millimetre Observations. II: Simple Models of the Lower Chromosphere **31**, 319
- BEEBE, H. A. / Formation of the Ca II K-Line Core with Arbitrary Temperature Minima **17**, 304
- BEEBE, Herbert A. and Hollis R. JOHNSON / Ca II Resonance Lines in Non-Homogeneous Chromospheres **10**, 79
- BEEBE, H. A. and H. R. JOHNSON / Ca II Emission Arches **27**, 34
- BEEBE, H. A., W. E. BAGGETT, and H. S. YUN / The Chromosphere above a Sunspot Umbra **79**, 31
- BEEBE, H. A., *see* Yun, H. S.
- BEEBE, H. A., *see* Yun, H. S. *et al.*
- BEHANNON, K. W., *see* Burlaga, L. F.
- BEIGMAN, I. L., Yu. I. GRINEVA, S. L. MANDEL'STAM, L. A. VAINSTEIN and I. A. ŽITNIK / On the Localization, Size and Structure of the Regions of the X-Ray Flares on the Sun **9**, 160
- BEL, N., *see* Schwartz, S. J.
- BEL, N., *see* Schwartz, S. J. *et al.*
- BELCHER, J. W., *see* Scholer, M.
- BELKINA, I. L., *see* Livshits, M. M. *et al.*
- BELL, G. G., *see* Baird, G. A.
- BELL, M. B. / Centimeter Radiation Associated with the Solar Limb Prominence of 8 February 1972 **27**, 137
- BELL, M. B., A. E. COVINGTON, and W. A. G. KENNEDY / Polarization Interferometer for 2800 MHz Solar Noise Studies with a 0.5' Fan Beam **28**, 123
- BELL, M. B., *see* Covington, A. E.
- BELL, R. A. / The Near Ultra-Violet Flux of the Harvard Smithsonian Reference Atmosphere **29**, 299
- BELVEDERE, G. / Solar and Stellar Activity: the Theoretical Approach **100**, 363 (*Invited Review*)
- BELVEDERE, G. and L. PATERNO / Long-Term Variation of the Solar Equatorial Velocity and Its Relation to Non-Axisymmetric Convection **41**, 289
- BELVEDERE, G. and L. PATERNO / Large-Scale Circulation in the Convection Zone and Solar Differential Rotation **47**, 525
- BELVEDERE, G. and L. PATERNO / On the Sun's Pole-Equator Flux Differences **52**, 191
- BELVEDERE, G. and L. PATERNO / Convection in a Rotating Deep Compressible Spherical Shell: Application to the Sun **54**, 289
- BELVEDERE, G. and L. PATERNO / Momentum and Energy Transport in the Sun's Convection Zone under the Observational Constraint of Flux and Temperature Homogeneity at the Surface **60**, 203 (*Research Note*)
- BELVEDERE, G., G. GODOLI, S. MOTTA, L. PATERNO, and R. A. ZAPPALA / Surface Reynolds Stresses Determined from the Analysis of Facular Motions and the Maintenance of the Sun's Differential Rotation **46**, 23
- BELVEDERE, G., D. O. GOUGH, and L. PATERNO / On the Influence of Nonlinearities on the Eigenfrequencies of Five-Minute Oscillations of the Sun **82**, 343
- BELVEDERE, G., G. LA ROSA, and L. PATERNO / The Influence of the Angular Velocity Distribution on the Energy Transport in the Sun's Convection Zone **74**, 107
- BELY, F., *see* Bely, O.
- BELY, O. and F. BELY / The Excitation of Fe XVII by Electron Impacts **2**, 285
- BELY, O. and M. BLAHA / Emission of Fe XV in Coronal Conditions **3**, 563

- BENEVOLENSKA, E. E., *see* Pudovkin, M. I.
- BENSON, R. S. and J. L. KULANDER / Electron Impact Excitation Rates for Helium **27**, 305
- BENTLEY, R. D., *see* Acton, L. W. *et al.*
- BENTLEY, R. D., *see* Harrison, R. A. *et al.*
- BENTLEY, R. D., *see* Schmahl, E. J. *et al.*
- BENZ, A. O. / Synchrotron or Plasma Emission in Solar Microwave Flares? **94**, 161 (*Research Note*)
- BENZ, A. O. / Radio Spikes and the Fragmentation of Flare Energy Release **96**, 357
- BENZ, A. O. and T. GOLD / Magnetically Trapped Particles in the Low Solar Atmosphere **21**, 157
- BENZ, A. O. and J. KUIPERS / Type IV dm Bursts: Onset and Sudden Reductions **46**, 275
- BENZ, A. O., C. H. BARROW, B. R. DENNIS, M. PICK, A. RAULT, and G. SIMNETT / X-Ray and Radio Emissions in the Early Stages of Solar Flares **83**, 267
- BENZ, A. O., *see* Aschwanden, M. J. *et al.*
- BENZ, A. O., *see* Dennis, B. R. *et al.*
- BENZ, A. O., *see* Garczyńska, I. N. *et al.*
- BENZ, A. O., *see* Strong, K. T. *et al.*
- BENZ, A. O., *see* Wiehl, H. J. *et al.*
- BERCOVITCH, M., *see* Hashim, A. *et al.*
- BERGER, R. A., E. C. BRUNER, Jr., and R. J. STEVENS / Solar C II Resonance Line Profiles **12**, 370
- BERGEY, J. A., *see* Argo, H. V.
- BERGQVIST, O. / On the Behaviour of the Fe II 3938-Line in Plages near the Limb **12**, 416 (*Research Note*)
- BERRINGTON, K. A., *see* Keenan, F. P.
- BERTHOMIEU, G. / Response of an Isothermal Bounded Atmosphere to an Applied Random Body-Force **38**, 311
- BERTON, R. and T. SAKURAI / Stereoscopic Determination of the Three-Dimensional Geometry of Coronal Magnetic Loops **96**, 93
- BERTSCH, D. L. and D. V. REEMES / Enhancement of Solar Heavy Nuclei at High Energies in the 4 July 1974 Event **55**, 491
- BERTSCH, D. L., S. BISWAS, C. E. FICHTEL, C. J. PELLERIN, and D. V. REAMES / Variations of the Relative Abundances of He, (C, N, O) and Fe-Group Nuclei in Solar Cosmic Rays and Their Relationship to Solar Particle Acceleration **31**, 247
- BERTSCH, D. L., S. BISWAS, and D. V. REAMES / Solar Cosmic Ray Composition above 10 MeV/Nucleon and Its Energy Dependence in the 4 August 1972 Event **39**, 479
- BESSEY, R. J. and M. KUPERUS / Thermally Driven Motions in a Gravitational Atmosphere **12**, 216
- BESSEY, R. J. and D. H. LIEBENBERG / Coronal Temperature Measurements near a Helmer Structure Base at the 1973 Solar Eclipse **94**, 233
- BESSEY, R. J., *see* Browne, S. L.
- BESSEY, R. J., *see* Krall, K. R. *et al.*
- BESSEY, R. J., *see* Liebenberg, D. H. *et al.*
- BESSEY, R. J., *see* Liebenberg, D. H. *et al.*
- BESSEY, R. J., *see* Mason, Stephen F.
- BESSEY, R. J., *see* Sahai, S. K.
- BHARGAVA, B. N. / Some Features of Relative Sunspot Number during the Declining Phase of Solar Cycle 19 **3**, 351 (*Research Note*)
- BHARGAVA, B. N. and G. K. RANGARAJAN / Recurrent Magnetic Activity, Sunspot Number and Its Rate of Decline **40**, 235
- BHATIA, A. K. and S. O. KASTNER / The Coronal Spectra of Fe XV and Ni XVII **65**, 181
- BHATIA, A. K. and S. O. KASTNER / Expected Intensities of Solar Neon-Like Ions **96**, 11
- BHATIA, A. K., *see* Mason, H. E. *et al.*
- BHATNAGAR, A. / Fine-Scan Velocity and Magnetic Field Measurements in Solar Active Regions **16**, 40
- BHATNAGAR, A. / On the Oscillatory Velocity Field in a Sunspot Atmosphere **18**, 40 (*Research Note*)
- BHATNAGAR, A. and J. O. STENFLO / A Method to obtain a Solar Velocity Map Directly in One Spectroheliogram **7**, 329 (*Research Note*)
- BHATNAGAR, A. and K. TANAKA / Intensity Oscillation in H α -Fine Structure **24**, 87
- BHATNAGAR, A., W. C. LIVINGSTON, and J. W. HARVEY / Observations of Sunspot Umbra Velocity Oscillations **27**, 80
- BHATNAGAR, A., *see* Howard, R.
- BHATNAGAR, A., *see* Sheeley, Jr., N. R.
- BHATTACHARYYA, J. C. / Velocity Oscillations in the Solar Atmosphere **24**, 274
- BHATTACHARYYA, J. C., *see* Balasubramaniam, K. S. *et al.*
- BHATTACHARYYA, J. C., *see* Bappu, M. K. V. *et al.*
- BHAVILAI, Rawi / The Bright Streaks in the H α Disk Chromosphere **5**, 471
- BHONSLE, R. V. and S. S. DEGAONKAR / Estimation of Coronal Magnetic Field from Razin Effect in Solar Decametric Continuum Burst **68**, 339 (*Research Note*)
- BHONSLE, R. V., *see* Alurkar, S. K.
- BHONSLE, R. V., *see* Mattoo, S. K.
- BHONSLE, R. V., *see* Sawant, H. S. *et al.*
- BIÉMONT, E. / Oscillator Strengths for 2 *pnd* - 2 *pn'* *f* Transitions of C I and Identifications in the Infrared Solar Photospheric Spectrum ($\leq \lambda \leq 3\mu$) **32**, 11

- BIÉMONT, E. / Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. I: Results for Ti I **38**, 15
- BIÉMONT, E. / Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron Group and Their Solar Photospheric Abundance. II: Results for Sc I **39**, 305
- BIÉMONT, E. / Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. III: Results for Mn I **44**, 269
- BIÉMONT, E. / Computation of Oscillator Strengths by a Semi-Empirical Method for Some Elements of the Iron-Group and Their Solar Photospheric Abundance. IV: Results for V I, Co I and Summary **56**, 79
- BIÉMONT, E. and N. GREVESSE / The Solar Photospheric Abundance of Iron **45**, 59
- BIÉMONT, E., N. GREVESSE, and Ø. HAUGE / Solar Abundance of Praseodymium **61**, 17
- BIÉMONT, E., G. ROLAND, and L. DELBOUILLE / f -Values for Tb II and a Search for Terbium in the Solar Photosphere **71**, 223
- BIERMANN, L., B. BROSKOWSKI, and H. U. SCHMIDT / The Interaction of the Solar Wind with a Comet **1**, 254
- BILLINGS, D. E. / Comments on a Paper by H. Zirin Entitled: 'Coronagraph Observations of the Coronal Condensation of 4 February 1962' **14**, 168 (*Research Note*)
- BILLINGS, D. E. / Coronal Temperatures from 'Frozen-In' Solar Wind Ions and Optical Line Profiles **38**, 181 (*Research Note*)
- BILLINGS, D. E. / Comment on the Paper 'Two-Fluid Model of the Solar Corona' by J. W. Knight, C. E. Newman, and P. A. Sturrock **41**, 367 (*Research Note*)
- BILLINGS, D. E. and M. ALVAREZ / Coronal Information from EUV Disk Spectral Line Intensities **40**, 23
- BILLINGS, D. E. and YOUNG OH / A Polarization-Color Effect in the K-Corona **21**, 418
- BILLINGS, D. E., R. ROUSSEL-DUPRÉ, and M. H. FRANCIS / Dynamical Implications of Si IV Line Profiles from OSO-8 Observations **55**, 287
- BILLINGS, D. E., *see* Eadon, E. J.
- BILLINGS, D. E., *see* Nakagawa, Y. *et al.*
- BIRD, M. K., H. VOLLAND, R. A. HOWARD, M. J. KOOMEN, D. J. MICHELS, N. R. SHEELEY, JR., J. W. ARMSTRONG, B. L. SEIDEL, C. T. STELZRIED, and R. WOO / White-Light and Radio Sounding Observations of Coronal Transients **98**, 341
- BIRMINGHAM, T. J., *see* Northrop, T. G.
- BIRN, J., H. GOLDSTEIN, and K. SCHINDLER / A Theory of the Onset of Solar Eruptive Processes **57**, 81
- BIRN, J., *see* Schindler, K. *et al.*
- BIRN, J., *see* Zwingmann, W. *et al.*
- BISNOVATY-KOGAN, G. S. and I. M. GORDON / The Outflow of Solar Wind from the Active Regions **18**, 133
- BISWAS, S. and B. RADHAKRISHNAN / Energetic Solar Particles and Their Relation to Optical Flares **28**, 211
- BISWAS, S., N. DURGAPRASAD, and M. N. VAHIA / Energy and Nuclear Charge Dependence of Abundance Enhancements of Solar Cosmic Ray Heavy Ions in Three Large Solar Events **89**, 163
- BISWAS, S., *see* Bertsch, D. L. *et al.*
- BIVEROT, H., *see* Stenflo, J. O. *et al.*
- BLACKWELL, D. E., B. S. COLLINS, and A. D. PETFORD / The Solar Abundance of Manganese **23**, 292 (*Research Note*)
- BLACKWELL, D. E., *see* Mallia, E. A.
- BLACKWELL, D. E., *see* Mallia, E. A. *et al.*
- BLACKWELL, D. E., *see* Petford, A. D. *et al.*
- BLAHA, M. / Theoretical Intensities of Fe XIV in the Solar EUV Spectrum **17**, 99
- BLAHA, M., *see* Bely, O.
- BLAKEY, J. R. / Solar Micro-Bursts at 22.2 GHz and Their Relationship to Events Observed at Lower Frequencies **46**, 241
- BLAKEY, J. R., *see* Kaufmann, P. *et al.*
- BLAMONT, J. E. et G. CARPENTIER / Mise en évidence de la granulation solaire à 2000 Å **1**, 180
- BLAMONT, J. E., *see* Bonnet, R. M.
- BLANQUET, G., *see* Grevesse, N.
- BLEISWEIS, M. P. and F. L. WEFER / La Posta Astrogeophysical Observatory **43**, 253 (*Report from a Solar Institute*)
- BLEIWEISS, M. P., *see* Cliver, E. W. *et al.*
- BLEIWEISS, M. P., *see* Wefer, F. L.
- BLINNIKOV, S. I. and M. YU. KHLOPOV / Excitation of the Solar Oscillations by Objects Consisting of γ -Matter **82**, 383
- BLOCKER, N. K., *see* Milkey, R. W. *et al.*
- BLOCKWOOD, J. V., *see* Cross, M. A.
- BLONDEL, M., *see* Mein, P.
- BOBOVA, V. P., *see* Vladimirovsky, B. M. *et al.*
- BOBOVA, N. A. and S. I. SYROVATSKII / Singular Lines of One-Dimensional Force-Free Magnetic Field **61**, 379

- BOBROWSKY, M., *see* Schmahl, E. J. *et al.*
- BOCCIA, R. and F. POUMEYROL / Preliminary Results of Sun Observations at 8.6 mm with the Bordeaux Interferometer **38**, 193
- BOCHSLER, P. and J. GEISS / Solar Abundances of Light Nuclei and Mixing of the Sun **32**, 3
- BOCHSLER, P., *see* Coplan, M. A. *et al.*
- BOCHSLER, P., *see* Kunz, S. *et al.*
- BOCKASTEN, K., *see* Edlén, B.
- BOELEE, A., *see* De Jager, C.
- BOELEE, A., *see* De Jager, C. *et al.*
- BOELEE, A., *see* Švestka, Z. *et al.*
- BOGART, R. S. / Recurrence of Solar Activity: Evidence for Active Longitudes **76**, 155
- BOGOD, V. M. and G. B. GELFREIKH / Measurements of the Magnetic Field and the Gradient of Temperature in the Solar Atmosphere above a Flocculus Using Radio Observations **67**, 29
- BOGOD, V. M., *see* Akhmedov, Sh. B. *et al.*
- BOHLIN, J. D. / Solar Coronal Streamers. I: Observed Locations, General Evolution, and Classification **12**, 240
- BOHLIN, J. D. / Solar Coronal Streamers. II: Evolution of Discrete Features from the Sun to 1 AU **13**, 153
- BOHLIN, J. D. / Photometry of the Outer Solar Corona from Lunar-Based Observations **18**, 450
- BOHLIN, J. D. / Extreme-Ultraviolet Observations of Coronal Holes. I: Locations, Sizes and Evolution of Coronal Holes June 1973-January 1974 **51**, 377
- BOHLIN, J. D. and L. M. GARRISON / Numerical Calculation of Thomson Scattering from Inhomogeneous Models of the Corona, and Application to Streamers of the 1970 and 1972 Eclipses **38**, 165
- BOHLIN, J. D. and M. SIMON / Coronal Densities and Magnetic Fields from K-Coronameter and Type IV Radio Burst Data **9**, 183
- BOHLIN, J. D. and N. R. SHEELEY, JR. / Extreme Ultraviolet Observations of Coronal Holes. II: Association of Holes with Solar Magnetic Fields and a Model for Their Formation during the Solar Cycle **56**, 125
- BOHLIN, J. D., K. J. FROST, P. T. BURR, A. K. GUHA, and G. L. WITHBROE / Solar Maximum Mission **65**, 5
- BOHLIN, J. D., M. J. KOOMEN, and R. TOUSEY / Rocket-Coronagraph Photometry of the 7 March, 1970 Corona from 3 to 8.5 R_s **21**, 408
- BOHLIN, J. D., *see* Hildner, E. *et al.*
- BOHLIN, J. D., *see* Sheeley, Jr., N. R. *et al.*
- BOHLIN, J. D., *see* Sheeley, N. R. *et al.*
- BOHLIN, J. D., *see* Tousey, R. *et al.*
- BÖHME, A. / The Time Behaviour of the Continua during the Initial Stage of Type IV Bursts **24**, 457
- BÖHME, A. / Spectral Behaviour and Proton Effects of the Type IV Broad-Band Continua **25**, 478
- BÖHME, A. and A. KRÜGER / The Flare-Related Depression of the Noise Storm on May 5, 1978 **76**, 63
- BÖHME, A., F. FÜRSTENBERG, and A. KRÜGER / Polarization Features of Type IV Bursts **39**, 207
- BÖHME, A., F. FÜRSTENBERG, J. HILDEBRANDT, O. SAAL, A. KRÜGER, P. HOYNG, and G. A. STEVENS / A Two-Component Model of Impulsive Microwave Burst Emission Consistent with Soft and Hard X-Rays **53**, 139
- BÖHME, A., *see* Akinyan, S. T. *et al.*
- BOICE, D. C., *see* Robinson, R. D.
- BOIKO, V. A., *see* Aglizki, E. V. *et al.*
- BOISCHOT, A. / Radioastronomy on Decameter Wavelengths at Meudon and Nançay Observatories **36**, 517 (*Report from a Solar Institute*)
- BOISCHOT, A., A. C. RIDDLE, J. B. PEARCE, and J. W. WARWICK / Shock Waves and Type II Radiobursts in the Interplanetary Medium **65**, 397
- BOISCHOT, A., *see* De la Noë, J. *et al.*
- BOISCHOT, A., *see* Leblanc, Y. *et al.*
- BOLAND, B. C., B. B. JONES, and S. F. T. ENGSTROM / An Echelle Spectrograph for High Resolution Studies of the Solar Vacuum Ultraviolet Spectrum **17**, 333
- BOMMIER, V. and S. SAHAL-BRÉCHOT / The Hanle Effect of the Coronal L α Line of Hydrogen: Theoretical Investigation **78**, 157
- BOMMIER, V., *see* Athay, R. G. *et al.*
- BOMMIER, V., *see* Leroy, J. L. *et al.*
- BOMMIER, V., *see* Querfeld, C. W. *et al.*
- BONDARENKO, N. M., *see* Vladimirsky, B. M. *et al.*
- BØNES, J. and P. MALTBY / The Evershed Flow in the Transition Region Chromosphere-Photosphere **57**, 65
- BONET, J. A., J. D. PONZ, and M. VAZQUEZ / On the Width Distribution of Penumbral Filaments in Sunspots **77**, 69
- BONNELLE, C., C. SENEMAUD, G. SENEMAUD, G. CHAMBE, M. GUIONNET, J. C. HENOUX, and R. MICHAUD / X-Ray Spectroheliograms in Lines of Mg XI and Mg XII **29**, 341
- BONNET, R. M. / The Role of Space Techniques in the Understanding of Solar Variability **74**, 485
- BONNET, R. M. / Helioseismology in the Future **82**, 487 (*Invited Review*)
- BONNET, R. M. and J. E. BLAMONT / Limb-Darkening Observations between 1800 and 2900 Å **3**, 64

- BONNET, R. M. and G. TSIROPOULA / Density and Temperature Determination of Neutral Hydrogen in Coronal Structures **75**, 139
- BOREIKO, R. T., *see* Clark, T. A.
- BORGNINO, J., J. VERNIN, C. AIME, and G. RICORT / A Study of the Degradation of Day-time Astronomical Images Due to Turbulence in the Lower Atmosphere by Measurement of the Standard Deviation of the Angle of Arrival **64**, 403
- BORGNINO, J., *see* Aime, C. *et al.*
- BORGNINO, J., *see* Ricort, G. *et al.*
- BORGNINO, J., *see* Ricort, G. *et al.*
- BORIS, J. P., *see* DeVore, C. R. *et al.*
- BORIS, J. P., *see* Sheeley, Jr., N. R. *et al.*
- BORKOWSKI, K. M. / The Quiet Sun Brightness Temperature at 127 MHz **81**, 207
- BORN, R. / First Phase of Active Regions and Their Relation to the Chromospheric Network **38**, 127
- BORRINI, G. and G. NOCI / Dynamics and Abundance of Ions in Coronal Holes **64**, 367
- BORRINI, G. and G. NOCI / Non-Equilibrium Ionization in Coronal Loops **77**, 153
- BORRINI, G., J. T. GOSLING, S. J. BAME, and W. C. FELDMAN / Helium Abundance Variations in the Solar Wind **83**, 367
- BOS, R. J. and H. A. HILL / Detection of Individual Normal Modes of Oscillation of the Sun in the Period Range from 2 hr to 10 min in Solar Diameter Studies **82**, 89
- BOSQUED, J. M., C. D'USTON, A. A. ZERTZALOV, and O. L. VAISBERG / Study of Alpha Component Dynamics in the Solar Wind Using the Prognostic Satellite **51**, 231
- BOSQUED, J. M., *see* D'Uston, C. *et al.*
- BOS, R. J., *see* Hill, H. A. *et al.*
- BOUCHER, D. J., Jr., *see* Schulz, M. *et al.*
- BOUET, J. / Light Deflection during Solar Eclipses **78**, 385 (*Research Note*)
- BOUGERET, J.-L., J. H. KING, and R. SCHWENN / Solar Radio Burst and *in situ* Determination of Interplanetary Electron Density **90**, 401
- BOUGERET, J.-L., *see* Dumas, G. *et al.*
- BOWE, G. A. and C. J. HATTON / A Study of the Modulating Effect of Solar Flares on the Cosmic Ray Intensity Using Time Series Analysis **80**, 351
- BOWLES, J. A., *see* Acton, L. W. *et al.*
- BOYDEN, J. E., *see* Howard, R. *et al.*
- BOYDEN, J. E., *see* Howard, R. *et al.*
- BOYDEN, JOHN E., *see* Howard, Robert *et al.*
- BOYER, R., J. C. HENOUX, and P. SOTIROVSKI / Isotopes of Magnesium in the Solar Atmosphere **19**, 330
- BOYER, R., M. E. MACHADO, D. M. RUST, and P. SOTIROVSKI / Analysis of a White-Light Flare Spectrum **98**, 255
- BRABBAN, D. H. / A Comparison of Three Solar Active Regions Based on Their Soft X-Ray Line Spectra **38**, 449
- BRABBAN, D. H., W. M. GLENCROSS, and F. D. ROSENBERG / Crystal Spectrometer Studies of the Sun Employing a Rotation Modulation Collimator **42**, 355
- BRACEWELL, R. N., *see* Graf, W.
- BRACEWELL, R. N., *see* Graf, W.
- BRAHDE, R. / Correction of Solar Observations for Stray Light by Numerical Integration, with Application to Mercury's Drop **26**, 318
- BRAHDE, R., *see* Jensen, E.
- BRANCH, David / On the Absence of the (0, 0) C₂ Swan Band from Sunspot Spectra **10**, 112 (*Research Note*)
- BRANDT, John C. / OSO-III: Preliminary Scientific Results **6**, 171
- BRANDT, John C. / Solar Physics at the Goddard Space Flight Center **6**, 490 (*Report from Solar Institute*)
- BRANDT, J. C., *see* Woodgate, B. E. *et al.*
- BRANDT, P. N. / Modulation Transfer Functions of Some Solar Recording Films **2**, 211
- BRANDT, P. N. / Frequency Spectra of Solar Image Motion **7**, 187
- BRANDT, P. N. / Measurement of Solar Image Motion and Blurring **13**, 243
- BRANDT, P. N. and A. NESIS / On the Determination of Noise in Photographic Measurements of Solar Velocities and Magnetic Fields **31**, 75
- BRANDT, P. N. and E. H. SCHRÖTER / On the Centre-to-Limb Variation and Latitude Dependence of the Asymmetry and Wavelength Shift of the Solar Line $\lambda 5576$ **79**, 3
- BRANDT, P. N. and A. WIESMEIER / Tests of 4 Single-Stage Image Intensifier Tubes for Solar Spectroscopy **38**, 517
- BRANTS, J. J. / High Resolution Spectroscopy of Active Regions. 2: Line-Profile Interpretation, Applied to an Emerging Flux Region **95**, 15
- BRANTS, J. J. / High-Resolution Spectroscopy of Active Regions. 3. Relations between the Intensity, Velocity, and Magnetic Structure in an Emerging Flux Region **98**, 197
- BRANTS, J. J. and J. C. M. STEENBEEK / Morphological Evolution of an Emerging Flux Region **96**, 229
- BRANTS, J. J. and C. ZWAAN / The Structure of Sunspots. IV: Magnetic Field Strengths in Small Sunspots and Pores **80**, 251

- BRANTS, J. J., *see* Zwaan, C. *et al.*
- BRASSEUR, G., *see* de Baets, P. de *et al.*
- BRATENAHL, A. and P. J. BAUM / On Flares, Substorms, and the Theory of Impulsive Flux Transfer Events **47**, 345
- BRATENAHL, A., *see* Baum, P. J.
- BRATENAHL, A., *see* Baum, P. J.
- BRAULT, J. W. and E. A. MÜLLER / The Solar Lithium Abundance. I: Observations of the Solar Lithium Feature at $\lambda 6707.8 \text{ \AA}$ **41**, 43
- BRAULT, J. W., C. D. SLAUGHTER, A. K. PIERCE, and R. S. AIKENS / True Central Intensities of Fraunhofer Lines **18**, 366
- BRAULT, J. W., *see* Athay, R. G. *et al.*
- BRAULT, J. W., *see* Lambert, D. L. *et al.*
- BRAULT, J. W., *see* Lites, B. W.
- BRAULT, J. W., *see* White, O. R. *et al.*
- BRÄUNINGER, H., H. J. EINIGHAMMER, J. V. FEITZINGER, H. H. FINK, D. H. HÖHN, H. KOOPS, G. KRÄMER, U. MAYER, G. MÖLLENSTEDT, and M. MOZER / EUV and Soft X-Ray Images of the Sun on March 11th, 1971 **20**, 81 (*Research Note*)
- BRÄUNINGER, H., *see* Krämer, G. *et al.*
- BRAY, R. J. / High-Resolution Photography of the Solar Chromosphere. II: The Relationship between Chromospheric and Photospheric Faculae **4**, 318
- BRAY, R. J. / High-Resolution Photography of the Solar Chromosphere. IV: Size, Shape, and Evolution of the Dark Mottles **5**, 323
- BRAY, R. J. / High-Resolution Photography of the Solar Chromosphere. VI: Properties of the Bright Mottles **10**, 63
- BRAY, R. J. / High-Resolution Photography of the Solar Chromosphere. X: Physical Parameters of H α Mottles **29**, 317
- BRAY, R. J. / Some Comments on the Photographic Subtraction Method of Determining Chromospheric Velocities **30**, 335
- BRAY, R. J. / High-Resolution Photography of the Solar Chromosphere. XIII: H α Contrast Profiles of Sunspot Fibrils **38**, 377
- BRAY, R. J. / A Refined Measurement of the Sunspot Radiative Flux Deficit **69**, 3
- BRAY, R. J. / The Wavelength Variation of the Granule/Intergranule Contrast **77**, 299 (*Research Note*)
- BRAY, R. J. and R. E. LOUGHHEAD / A New Determination of the Granule/Intergranule Contrast **54**, 319
- BRAY, R. J. and R. E. LOUGHHEAD / High-Resolution Photography of the Solar Chromosphere. XVI: H α Contrast Profiles of Active Region Loops **85**, 131
- BRAY, R. J. and J. G. WINTER / High-Resolution Photography of the Solar Chromosphere. VII: Computer Control of a Turnable $1/8 \text{ \AA}$ Filter **14**, 309
- BRAY, R. J., R. E. LOUGHHEAD, and E. J. TAPPER / High-Resolution Photography of the Solar Chromosphere. XV: Preliminary Observations in Fe I $\lambda 6569.2$ **39**, 323 (*Research Note*)
- BRAY, R. J., R. E. LOUGHHEAD, and E. J. TAPPER / Convective Velocities Derived from Granule Contrast Profiles in Fe I $\lambda 6569.2$ **49**, 3
- BRAY, R. J., R. E. LOUGHHEAD, and E. J. TAPPER / Convective Velocities Derived from Granule Contrast Profiles in Fe I $\lambda 6569.2$ (*Errata*) **55**, 277 (**49**, 3)
- BRAY, R. J., *see* Loughhead, R. E.
- BRAY, R. J., *see* Loughhead, R. E.
- BRECKINRIDGE, J. B. and D. N. B. HALL / The Absorption Spectrum of Atmospheric Water Vapor in the Vicinity of the He 10830 \AA Triplet **28**, 15
- BRIDGES III, C. A., *see* Rust, D. M.
- BRINKMAN, A. C. and M. L. SHAW / The 1–55 \AA X-Ray Emission from an Active Limb Prominence **23**, 120
- BROLLEY, J. E. / Primary Solar Reaction Dependence on Deuteron Structure **20**, 249
- BROMANDER, J., *see* Edlén, B.
- BROMBOSZCZ, G., M. SIARKOWSKI, J. SYLWESTER, V. V. KORNEEV, S. L. MANDELSHTAM, S. N. OPARIN, A. M. URNOV, and I. A. ZHITNIK / Analysis of the High-Resolution Mg XI X-Ray Spectra. IV: Derivation of the Plasma Densities Close to the 'Low-Density' Limit **83**, 243
- BROMBOSZCZ, G., *see* Krutov, V. V. *et al.*
- BROMBOSZCZ, G., *see* Siarkowski, M. *et al.*
- BROMBOSZCZ, G., *see* Siarkowski, M. *et al.*
- BROOKES, J. R., G. R. ISAAC, and H. B. VAN DER RAAY / A Two-Dimensional Solar Spectrometer **74**, 503
- BROSOWSKI, B., *see* Biermann, L.
- BROUSSARD, R. M., N. R. SHEELEY, JR., R. TOUSEY, and J. H. UNDERWOOD / A Survey of Coronal Holes and Their Solar Wind Associations throughout Sunspot Cycle 20 **56**, 161
- BROUSSARD, R. M., *see* Janssens, T. J. *et al.*
- BROWN, D. R., *see* Beckers, J. M. *et al.*
- BROWN, D. R., *see* Jones, H. P.
- BROWN, D. R., *see* Wilson, P. R. *et al.*
- BROWN, G. M. / Possible Use of (a) Solar Faculae and (b) the Interplanetary Magnetic Field as Heralds of a Solar Cycle Peak **74**, 125
- BROWN, G. M. and D. R. EVANS / The Use of Solar Faculae in Studies of the Sunspot Cycle **66**, 23
- BROWN, G. M. and D. R. EVANS / Latitude

- Variations of Photospheric Activity Areas with Particular Reference to Solar Faculae **68**, 141
- BROWN, J. C. / The Deduction of Energy Spectra of Non-Thermal Electrons in Flares from the Observed Dynamic Spectra of Hard X-Ray Bursts **18**, 489
- BROWN, J. C. / The Decay Characteristics of Models of Solar Hard X-Ray Bursts **25**, 158
- BROWN, J. C. / The Directivity and Polarisation of Thick Target X-Ray Bremsstrahlung from Solar Flares **26**, 441
- BROWN, J. C. / Thick Target X-Ray Bremsstrahlung from Partially Ionised Targets in Solar Flares **28**, 151
- BROWN, J. C. / On the Ionisation of Hydrogen in Optical Flares **29**, 421
- BROWN, J. C. / The Temperature Structure of Chromospheric Flares Heated by Non-Thermal Electrons **31**, 143
- BROWN, J. C. / Temporal Fine Structure of X-Rays from Trapped Electrons in Solar Flares **32**, 227 (*Research Note*)
- BROWN, J. C. / Comments on the Role of Conduction in Optical Flare Heating **36**, 371 (*Research Note*)
- BROWN, J. C. / Introductory Talk **53**, 263
- BROWN, J. C. / Dissipative Thermal Models for Impulsive Burst Delays **86**, 227
- BROWN, J. C. and J. HAYWARD / Height Structure of Thermal Hard X-Ray Sources on the Sun **73**, 121
- BROWN, J. C. and J. HAYWARD / Dissipation and Stability of Return Currents in Solar Flares **80**, 129
- BROWN, J. C. and A. N. MCCLYMONT / The Height Distribution of Flare Hard X-Rays in Thick and Thin Target Models **41**, 135
- BROWN, J. C. and A. N. MCCLYMONT / Oscillations of Coronal Electron Traps Inferred from Hard X-Ray Data **49**, 329
- BROWN, J. C. and D. B. MELROSE / Collective Plasma Effects and the Electron Number Problem in Solar Hard X-Ray Bursts **52**, 117
- BROWN, J. C., I. J. D. CRAIG, and J. T. KARPEN / Dynamic Spectral Characteristics of Thermal Models for Solar Hard X-Ray Bursts **67**, 143
- BROWN, J. C., R. C. CANFIELD, and M. N. ROBERTSON / H α Profiles from Electron-Heated Solar Flares **57**, 399
- BROWN, J. C., V. A. CARLAW, D. CROMWELL, and S. R. KANE / A Comparison of the Thick-Target Model with Stereo Data on the Height Structure of Solar Hard X-Ray Bursts **88**, 281
- BROWN, J. C., *see* Emslie, A. G. *et al.*
- BROWN, J. C., *see* Hoyng, P. *et al.*
- BROWN, J. C., *see* Kaufmann, P. *et al.*
- BROWN, J. C., *see* Loran, J. M. *et al.*
- BROWN, J. C., *see* Machado, M. E. *et al.*
- BROWN, J. C., *see* MacKinnon, A. L. *et al.*
- BROWN, J. C., *see* Spicer, D. S.
- BROWN, N., *see* Giovanelli, R. G.
- BROWN, W. A., *see* Acton, L. W. *et al.*
- BROWNE, S. L. and R. J. BESSEY / A Dynamical Model of the Corona **31**, 351
- BROWNING, P. K. and E. R. PRIEST / The Magnetic Non-Equilibrium of Buoyant Flux Tubes in the Solar Corona **92**, 173
- BRUECKNER, G. E. / The Prime Energy Release and Flare Development **53**, 269
- BRUECKNER, G. E. / Type I Noise Storms and the Structure of the Extreme Ultraviolet Corona **85**, 243
- BRUECKNER, G. E. / A Comparison of High-Energy Events in the Quiet Sun with Solar Flares **86**, 259
- BRUECKNER, G. E. and J.-D. F. BARTOE / The Fine Structure of the Solar Atmosphere in the Far Ultraviolet **38**, 133
- BRUECKNER, G. E. and K. R. NICOLAS / Extreme Ultraviolet Emission from Chromospheric Inhomogeneities. An Analysis of the Extreme Ultraviolet Flash Spectrum of the Sun **29**, 301
- BRUECKNER, G. E., N. P. PATTERSON, and V. E. SCHERRER / Spectroscopic Far Ultraviolet Observations of Transition Zone Instabilities and Their Possible Role in a Pre-Flare Energy Build-up **47**, 127
- BRÜCKNER, G., E. SCHRÖTER, and H. H. VOIGT / The Solar Work at the Göttingen Observatory **1**, 487 (*Report from Solar Institute*)
- BRUECKNER, G. E., *see* Nicolas, K. R. *et al.*
- BRUECKNER, G. E., *see* Nicolas, K. R. *et al.*
- BRUECKNER, G. E., *see* Sheeley, Jr., N. R. *et al.*
- BRUECKNER, G. E., *see* Sheeley, N. R. *et al.*
- BRUECKNER, G. E., *see* Tousey, R. *et al.*
- BRUECKNER, G. E., *see* Vanhoosier, M. E. *et al.*
- BRUNEL, F., *see* Sakai, J. *et al.*
- BRUNE, R. and H. WÖHL / On the Size and Structure of Bright Solar Ca⁺-Network Cells Depending on the Heliographic Position **75**, 75 (*Research Note*)
- BRUNER, E. C., JR., *see* Athay, R. Grant *et al.*
- BRUNER, E. C., JR., *see* Lites, B. W. *et al.*
- BRUNER, E. C., *see* Poland, A. I. *et al.*
- BRUNER, E. C., *see* Švestka, Z. *et al.*
- BRUNER, E. C., *see* Woodgate, B. E. *et al.*
- BRUNER, JR., E. C., *see* Berger, R. A. *et al.*
- BRUNER, M. E. C., *see* Acton, L. W. *et al.*
- BRUNER, M., *see* Hagyard, M. J. *et al.*
- BRUNER, M., *see* Harrison, R. A. *et al.*

- BRUNER, M., *see* Henze, W., Jr. *et al.*
- BRUNER, M., *see* Kopp, R. A. *et al.*
- BRUNING, D. H. / Empirical Limb Effect Curves for the Fe I Lines $\lambda 5250$ and $\lambda 5576$ **71**, 233 (*Research Note*)
- BRUNING, DAVID H. / Empirical Limb Effect Curves for the Fe I Lines $\lambda 5250$ and $\lambda 5576$ (*Errata*) **76**, 199 (**71**, 233)
- BRUNING, D. H. and B. LABONTE / Variations of the Asymmetry of Disk-Integrated Solar Line Profiles **97**, 1
- BRUNING, D. H., *see* Howard, R. *et al.*
- BRUNO, R., *see* Mariani, F. *et al.*
- BRUNS, A., *see* Stenflo, J. O. *et al.*
- BRUSA, R. W., *see* Fröhlich, C.
- BRUZEK, A. / On Arch-Filament Systems in Spotgroups **2**, 451
- BRUZEK, A. / Motions in Arch Filament Systems **8**, 29
- BRUZEK, A. / On the Relation between Filaments (Prominences) and H α Loops **24**, 118
- BRUZEK, A. / Some Observational Results on Moustaches **26**, 94
- BRUZEK, A. / Changes of the H α Fibril Pattern during Solar Flares **42**, 215 (*Research Note*)
- BRUZEK, A. / Pre-Flare Energy Storage (title only) **47**, 215
- BRUZEK, A. / Post-Flare H α Plage Formation **61**, 35 (*Research Note*)
- BRUZEK, A. and H. L. DEMASTUS / Flare-Associated Coronal Expansion Phenomena **12**, 447
- BRUZEK, A. and M. KUPERUS / Physics of Solar Prominences. Report on an International Colloquium Held at the German Solar Observatory, Anacapri, September 29 to October 1, 1971 **24**, 3
- BUSCHORR, O. / Influence of the Acoustic Radiation Pressure on the Atmosphere of the Sun **79**, 327
- BUKATA, R. P., P. T. GRONSTAL, R. A. R. PALMEIRA, K. G. MCCracken and U. R. RAO / Neutron Monitor and Pioneer 6 and 7 Studies of the January 28, 1967 Solar Flare Event **10**, 198
- BUKATA, R. P., P. T. GRONSTAL, and R. A. R. PALMEIRA / The Small Anisotropy and the Rigidity Spectrum of the March 30, 1969 Solar Flare Event **14**, 419
- BUKATA, R. P., U. R. RAO, K. G. MCCracken, and E. P. KEATH / Observation of Solar Particle Fluxes over Extended Solar Longitudes **26**, 229
- BUKATA, R. P., *see* Keath, E. P. *et al.*
- BUKATA, R. P., *see* McCracken, K. G., *et al.*
- BUMBA, V. / Magnetic Fields in Small and Young Sunspots **1**, 371
- BUMBA, V. / Concerning the Formation of Giant Regular Structures in the Solar Atmosphere **14**, 80
- BUMBA, V. and R. HOWARD / Solar Activity and Recurrences in Magnetic-Field Distribution **7**, 28
- BUMBA, V. and V. N. OBRIDKO / 'Bartels' Active Longitudes', Sector Boundaries and Flare Activity **6**, 104
- BUMBA, V. and B. RŮŽIČKOVÁ-TOPOLOVÁ // Variability of the Integrated Solar K Line Emission **1**, 216
- BUNDY, R. B., *see* Fitzenreiter, R. J. *et al.*
- BURATTI, B. J., *see* Kahler, S. W.
- BURGER, M. and J. H. DIJKSTRA / Photographs of the Sun in the XUV-Region **24**, 395
- BURGER, M. and J. HOUTGAST / Equator-Pole Effect in the Central Intensities of Some Strong Solar Fraunhofer Lines **9**, 296
- BURGESS, A., *see* MacNeice, P. *et al.*
- BURL, J. B., R. G. TESKE, and E. B. MAYFIELD // A Comparison of the Temperature and Emission Measure of X-Ray Active Regions with Coronal Magnetic Fields **63**, 157
- BURLAGA, Leonard F. / Micro-Scale Structures in the Interplanetary Medium **4**, 67
- BURLAGA, Leonard F. / Directional Discontinuities in the Interplanetary Magnetic Field **7**, 54
- BURLAGA, Leonard F. / Large Velocity Discontinuities in the Solar Wind **7**, 72
- BURLAGA, L. F. / Anisotropic Solar Cosmic Ray Propagation in an Inhomogeneous Medium, II **12**, 317
- BURLAGA, L. F. and K. W. BEHANNON / Magnetic Clouds: Voyager Observations between 2 and 4 AU **81**, 181
- BURLAGA, L. F. and N. F. NESS / Tangential Discontinuities in the Solar Wind **9**, 467
- BURLAGA, L. F. and K. W. OGILVIE / Magnetic and Thermal Pressures in the Solar Wind **15**, 61
- BURLAGA, L. F., J. RAHE, B. DONN, and M. NEUGEBAUER / Solar Wind Interaction with Comet Bennett (1969i) **30**, 211
- BURLAGA, L. F., *see* Lazarus, A. J. *et al.*
- BURLAGA, L. F., *see* Ogilvie, K. W.
- BURNS, J. / Observations of an Active Limb Prominence in the H β Line **29**, 403
- BURR, P. T., *see* Bohlin, J. D. *et al.*
- BURTON, W. M. / Solar Photography in the Extreme Ultraviolet **8**, 53
- BURTON, W. M. and A. RIDGELEY / The Solar Limb Emission Spectrum between 300 Å and 2803 Å **14**, 3
- BURTON, W. M., *see* Ridgeley, A.
- BUSSE, F. H. / A Simple Magnetostatic Model of

Sunspots 33, 413

BUTZ, M., E. FÜRST, W. HIRTH, and M. R. KUNDU / On the Structure of Filaments from Centimeter and Millimeter Observations 45, 125

BVASSANO, B., *see* Mariani, F. *et al.*

BYARD, P. L. and K. E. KISSELL / Observations of the Infrared Fe XIII Lines in the Solar Corona of 12 November, 1966 21, 351

BYRNE, P. B., *see* Doyle, J. G. *et al.*

CACCIANI, A. and M. FOFI / A Complete Stokes-Meter 19, 270

CACCIANI, A. and M. FOFI / The Magneto-Optical Filter. II. Velocity Field Measurements 59, 179

CACCIANI, A., V. CROCE, T. FORTINI, and M. TORELLI / Searching for $L=1$ Modes of Solar Oscillations 74, 543

CACCIANI, A., T. FORTINI, and M. TORELLI / Na Light Flare Observations: McMath 13043—July 1974 67, 311

CACCIANI, A., *see* Agnelli, G. *et al.*

CACCIANI, A., *see* Cimino, M. *et al.*

CACCIANI, A., *see* Cimino, M. *et al.*

CACCIN, B., A. DONATI-FALCHI, and R. FALCIANI / Temperature Variations in the Solar Photosphere. II: Temperature Sensitivity of Some Fraunhofer Lines 33, 49

CACCIN, B., R. FALCIANI, G. MOSCHI, and M. RIGUTTI / Temperature Difference between the Equators and the Poles of the Sun 13, 33

CACCIN, B., R. FALCIANI, and A. DONATI-FALCHI / Temperature Effects on Measurements of Photospheric Magnetic Fields 35, 31

CACCIN, B., R. FALCIANI, and A. DONATI-FALCHI / Some Remarks on Line Weakenings in Photospheric Faculae 35, 41

CACCIN, B., R. FALCIANI, and A. DONATI-FALCHI / Temperature Variations in the Solar Photosphere. III: Kitt Peak Measurements of the Variations of Photospheric Line Profiles with the Heliographic Latitude 46, 29

CACCIN, B., R. FALCIANI, and A. DONATI-FALCHI / Variation of the Profiles of Medium-Strong Photospheric Lines with Heliographic Latitude 57, 13

CACCIN, B., R. FALCIANI, G. ROBERTI, A. M. SAMBUCCO, and L. A. SMALDONE / Bi-dimensional Analysis of Solar Active Regions and Flares. I: Imaging Spectroscopy with Universal Birefringent Filters 89, 323

CACCIN, B., G. MOSCHI, M. RIGUTTI, and R. FALCIANI / Spectropolarimetric Analysis of the Solar Corona during the 12 November, 1966 Total Eclipse 17, 89

CAILLOUX, M., *see* Crifo, F. *et al.*

CALAMAI, G., F. CHIUDERI DRAGO, and G. PETTINI / Analysis of the Supergranulation Structure in Coronal Holes 65, 167 (*Research Note*)

CALLEBAUT, D. K. / Pulsation, Rotation and Sunspot Cycle 51, 271 (*Research Note*)

CALLY, P. S. / Umbral Oscillations in the Presence of a Spreading Magnetic Field 88, 77

CALLY, P. S. and J. A. ADAM / On Photospheric and Chromospheric Penumbra Waves 85, 97

CALLY, P. S., *see* Schwartz, S. J. *et al.*

CAMBOU, F., *see* D'Uston, C. *et al.*

CAMPOS, L. M. B. C. / On Waves in Non-Isothermal, Compressible, Ionized and Viscous Atmospheres 82, 355

CANE, H. V., R. G. STONE, J. FAINBERG, J. L. STEINBERG, and S. HOANG / Type II Solar Radio Events Observed in the Interplanetary Medium. I: General Characteristics 78, 187

CANE, H. V., *see* Cliver, E. W. *et al.*

CANE, H. V., *see* Robinson, R. D. *et al.*

CANFIELD, R. C. / On the Frequency Dependence of the Line Source Function 12, 63 (*Research Note*)

CANFIELD, R. C. / A Measurement of the Non-Thermal Velocity in the Low Chromosphere 20, 275

CANFIELD, R. C. / Theoretical Chromospheric Flare Spectra. II: Hydrogen Equilibrium for Brown's (1973) Models for Heating by Non-Thermal Electrons 34, 339

CANFIELD, R. C. / The Height Variation of Granular and Oscillatory Velocities 50, 239

CANFIELD, R. C. / A Qualitative Interpretation of 7 August 1972 Impulsive Phase Flare $H\alpha$ Line Profiles 75, 263

CANFIELD, R. C. and R. G. ATHAY / Theoretical Chromospheric Flare Spectra. I: Hydrogen Equilibrium for the Kinematic Flare-Shock Models of Nakagawa *et al.* (1973) 34, 193

CANFIELD, R. C. and J. P. MEHLTRETTER / Fluctuations of Brightness and Vertical Velocity at Various Heights in the Photosphere 33, 33

CANFIELD, R. C. and M. E. VAN HOOSIER / Observed $L\alpha$ Profiles for Two Solar Flares: 14:12 UT 15 June, 1973 and 23:16 UT 21 January, 1974 67, 339

CANFIELD, R. C., J. M. PASACHOFF, R. E. STENDEL, and J. M. BECKERS / Spatial Structure in Lines in the 3398–3526 Å Region at the Extreme Limb: Observation, Identification and Interpretation 58, 263

CANFIELD, R. C., *see* Altrock, R. C.

CANFIELD, R. C., *see* Brown, J. C. *et al.*

CANFIELD, R. C., *see* Hudson, H. S. *et al.*

- CANNON, C. J. / Calculation of Two-Dimensional Models of the Lower Solar Chromosphere **16**, 314
- CANNON, C. J. / The Effect of Two-Dimensional Macroscopic Velocity Fields on Models of the Lower Solar Chromosphere **21**, 82
- CANNON, C. J. and P. R. WILSON / Center-Limb Observations of Inhomogeneities in the Solar Atmosphere. I: The Mg b Lines **14**, 29
- CANNON, C. J. and P. R. WILSON / Center-Limb Observations of Inhomogeneities in the Solar Atmosphere. II: The Na D and Na 5688 Doublets and the Mg 14571 Line **17**, 288
- CANNON, C. J., *see* Altrock, R. C.
- CANNON, C. J., *see* Altrock, R. C.
- CANNON, C. J., *see* Altrock, R. C.
- CANNON, C. J., *see* Altrock, R. C.
- CANNON, C. J., *see* Wilson, P. R.
- CANTÙ, A. M., G. GODOLI, and G. POLETO / On the Connection between N-S and E-W Solar Asymmetries **15**, 356 (*Research Note*)
- CARBON, Duane, Owen GINGERICH, and Robert KURUCZ / Effects of Line Blanketing on the Solar Windows **3**, 55
- CARGILL, P. J. and E. R. PRIEST / Siphon Flows in Coronal Loops. I: Adiabatic Flow **65**, 251
- CARGILL, P. J. and E. R. PRIEST / Slow-Shock Heating and the Kopp-Pneuman Model for 'Post'-Flare Loops **76**, 357
- CARLAW, V. A., *see* Brown, J. C. *et al.*
- CARLQVIST, P. / Current Limitation and Solar Flares **7**, 377
- CARLQVIST, P. / A Flare-Associated Mechanism for Solar Surges **63**, 353
- CARLQVIST, P., *see* Alfvén, H.
- CARNEVALE, R. F., *see* Ward, F. *et al.*
- CAROUBALOS, C., J. HEYVAERTS, M. PICK, and G. TROTTE / Pairs of Non Fundamental-Harmonic Type III Bursts **37**, 205
- CAROUBALOS, C., M. PICK, H. ROSENBERG, and C. SLOTTJE / A High Resolution Study in Time, Position, Intensity, and Frequency of the Radio Event of January 14, 1971 **30**, 473
- CAROUBALOS, C., *see* Dumas, G. *et al.*
- CAROVILLANO, R. L. and G. L. SISCOE / Corotating Structure in the Solar Wind **8**, 401
- CAROVILLANO, R. L., *see* Gussenhoven, M. S.
- CAROVILLANO, R. L., *see* Siscoe, G. L.
- CARPENTIER, G., *see* Blamont, J. E.
- CARROLL, G. A., *see* Martin, S. F. *et al.*
- CARVER, J. H., B. H. HORTON, G. W. A. LOCKEY, and B. ROFE / Ultraviolet Ion Chamber Measurements of the Solar Minimum Brightness Temperature **27**, 347
- CASALINI, P. L., *see* Antonucci, E. *et al.*
- CASALINI, P. L., *see* Azzarelli, L. *et al.*
- CASALINI, P. L., *see* Azzarelli, L. *et al.*
- CASALINI, P. L., *see* Azzarelli, L. *et al.*
- CASTELLI, J. P. and G. A. MICHAEL / The Sagamore Hill Solar Radio Observatory and the Event of August 28, 1966 **1**, 125
- CASTELLI, J. P., *see* Guidice, D. A.
- CASTELLI, J. P., *see* Tanaka, H. *et al.*
- CATALANO, C. P., *see* Evans, J. W.
- CATTANEO, M. B., V. FORMISANO, G. MORENO, F. PALMIOTTO, F. PALUTAN, and P. SARACENO / Observation of Solar Wind Heavy Ions **17**, 468
- CATURA, R. C., *see* Acton, J. W. *et al.*
- CAUDELL, T. P., *see* Hill, H. A. *et al.*
- CAULK, H. M., *see* Hobbs, R. W. *et al.*
- CAVALLINI, F. and A. RIGHINI / H and K (Ca II) Emissions as Observed in Coronal Spectrum in the July 20, 1963 Solar Eclipse **45**, 291
- CEBALLOS, J. C. and P. LANTOS / Quiet-Sun Center-Limb Observations at 6 and 11 cm during Cycle Maximum **22**, 142
- CERRI, S., *see* Antonucci, E. *et al.*
- CERRI, S., *see* Antonucci, E. *et al.*
- CERRI, S., *see* Antonucci, E. *et al.*
- CERRI, S., *see* Azzarelli, L. *et al.*
- CHA, M. Y. and F. Q. ORRALL / Brightness Fluctuations in the K-Line Wings **28**, 333
- CHA, M. Y. and O. R. WHITE / Analysis of the 5 min Oscillatory Photospheric Motion. II: Statistical Analysis of the Oscillation as a Narrow-Band Random Process **31**, 55
- CHA, M. Y., *see* White, O. R.
- CHAKRABORTY, A. K., *see* Sengupta, P. R.
- CHAMBE, G. / The Emission of Solar X-Rays in the 0.5-3 Å Wavelength Range and Its Relation to the Magnetic Configuration of Active Centers **8**, 369
- CHAMBE, G. and P. LANTOS / Influence of Helium and Heavy Elements on the Radio Absorption Coefficient **17**, 97 (*Research Note*)
- CHAMBE, G., *see* Bonnelle, C. *et al.*
- CHAMBE, G., *see* Henoux, J.-C. *et al.*
- CHAMBERS, W. H., *see* Milkey, R. W. *et al.*
- CHAMBON, G., K. HURLEY, M. NIEL, R. TALON, G. VEDRENNE, I. V. ESTULINE, and O. B. LIKINE / The November 22, 1977 Solar Flare: Evidence for 2.23 and 4.43 MeV Line Emission from the Signe 2 MP Experiment **69**, 147
- CHAN, K. L., *see* Sofia, S.
- CHANAN, G. A., *see* Lemen, J. R. *et al.*
- CHANDRA, S. / Excitation Equilibrium for Low Lying Levels in C II, N III, O IV, Ne VI, Mg VIII, Si X, and Si II **58**, 291
- CHANDRA, S. / Intensity of Lines from Low-Lying Levels in C II, N III, O IV, Mg VIII, Si X, and Si II

75, 133

CHANDRA, S. and U. NARAIN / On Green-to-Red Line Intensity Ratio in the Solar Corona **46**, 183 (*Research Note*)

CHANDRA, S., *see* Narain, U.

CHANG, H.-M., *see* Yang, H.-S. *et al.*

CHAPMAN, G. A. / An Interference Filter for Observing the Photospheric Network **13**, 78

CHAPMAN, G. A. / On the Physical Conditions in the Photospheric Network: an Improved Model of Solar Faculae **14**, 315

CHAPMAN, G. A. / Magnetic Fields and Helium-D₃ Spectroheliograms **24**, 288

CHAPMAN, G. A. / Time-Averaged Spectroheliograms **26**, 229

CHAPMAN, G. A. / Time-Averaged Observations of the Sun with a 3840 Å Filter **37**, 151

CHAPMAN, G. A. and T. W. GINGELL / Center-to-Limb Variation **91**, 243

CHAPMAN, G. A. and G. GROISMAN / A Digital Analysis of Sunspot Areas **91**, 45

CHAPMAN, G. A. and N. R. SHEELEY, Jr. / The Photospheric Network **5**, 442

CHAPMAN, G. A. and N. R. SHEELEY, JR. / An Improved Measurement of a Spectrogram of a 'Gap' **51**, 61 (*Research Note*)

CHAPMAN, G. A., *see* Heasley, J. N. *et al.*

CHAPMAN, G. A., *see* Ingersoll, A. P.

CHAPMAN, G. A., *see* Lawrence, J. K. *et al.*

CHAPMAN, G. A., *see* Mayfield, E. B.

CHAPMAN, G. A., *see* Mayfield, E. B. *et al.*

CHAPMAN, G. A., *see* Shimabukuro, Fred I. *et al.*

CHAPMAN, R. D. / Calibration of OSO-7 Fe xv 284 Å Spectroheliograms in *Solar-Geophysical Data Bulletin* **38**, 415 (*Research Note*)

CHAPMAN, R. D. / The Corona Associated with Solar Filaments **71**, 151

CHAPMAN, R. D., *see* Lopresto, J. C. *et al.*

CHAPMAN, R. D., *see* Nakada, M. P. *et al.*

CHAPMAN, R. D., *see* Neupert, W. M. *et al.*

CHASE, R. C., *see* Fritzová-Švestková, L. *et al.*

CHASE, R. C., *see* Švestka, Z. *et al.*

CHASSON, R. L., *see* Parker, G. D. *et al.*

CHATTEN, K., *see* Sofia, S. *et al.*

CHATTOPADHYAY, T., *see* Das Gupta, M. K. *et al.*

CHATTOPADHYAY, T., *see* Sarkar, S. K. *et al.*

CHEN, C.-J. / Response of an Optically Thin, Isothermal Atmosphere to a Convective Overshoot **37**, 53

CHEN, C.-J. and P. S. LYKOURDIS / Velocity Oscillations in Solar Plage Regions **25**, 380

CHEN, C.-L., *see* Loughhead, R. E. *et al.*

CHEN, H. S.-L. and S. D. SHAWHAN / Structure and Evolution of Solar Radio Bursts at 26.4 MHz **57**, 205

CHEN, J., *see* Xue, M. L.

CHENG, CHUNG CHIEH / Heating of the Solar Flare Plasma by High Energy Electrons **22**, 178

CHENG, C.-C. / Evolution of the High-Temperature Plasma in the 15 June 1973 Flare **55**, 413

CHENG, C.-C. / Analysis of the Emission Line Spectra of a Solar Flare Observed from Skylab **56**, 205

CHENG, C.-C. / Densities and Mass Motions in Transition-Zone Plasmas in Solar Flares Observed from Skylab **65**, 283

CHENG, C.-C. / Spatial Distribution of XUV Emission and Density in a Loop Prominence **65**, 347

CHENG, C.-C. and O. KJELDSETH MOE / Emission Measures and Structure of the Transition Region of a Sunspot from Emission Lines in the Far Ultraviolet **52**, 327

CHENG, C.-C. and O. KJELDSETH MOE / The EUV Continuum Emission (1400–1960 Å) in a Solar Flare Observed from Skylab **59**, 361

CHENG, CHUNG-CHIEH and R. PALLAVICINI / Analysis of the Magnetic Field Configuration of a Filament-Associated Flare from X-Ray, UV, and Optical Observations **93**, 337

CHENG, CHUNG-CHIEH, K. J. H. PHILLIPS, and A. M. WILSON / Comments on the Zirin-Frazier Controversy **29**, 383 (*Research Note*)

CHENG, CHUNG-CHIEH, J. B. SMITH, JR., and E. TANDBERG-HANSEN / Morphology and Spatial Distribution of XUV and X-Ray Emissions in an Active Region Observed from Skylab **67**, 259

CHENG, C. C., *see* Poland, A. I. *et al.*

CHENG, C. C., *see* Schmahl, E. J. *et al.*

CHERKI, G., J. P. MERCIER, A. RAVIART, L. TREGUER, D. MACCAGNI, F. PEROTTI, and G. VILLA / Effect of Solar Corona Conditions on Flare Particle Propagation **34**, 223

CHERNOV, G. P., I. M. CHERTOK, V. V. FOMICHEV, and A. K. MARKEEV / Results of Observation of Spectra and Polarization of Meter Solar Radio Emission with High Time Resolution; May-June, 1969 **24**, 215

CHERNOV, G. P., O. S. KOROLEV, and A. K. MARKEEV / Observations of a Complex Solar Radio Burst with Fine Structure on 3 May 1973 **44**, 435

CHERNOV, G. P., *see* Aurass, H.

CHERNOV, G. P., *see* Zaitsev, V. V. *et al.*

CHERRY, M. L., *see* Forrest, D. J. *et al.*

CHERTKOV, A. D., *see* Pudovkin, M. I.

CHERTKOV, A. D., *see* Pudovkin, M. I. *et al.*

CHERTKOV, A. D., *see* Pudovkin, M. I. *et al.*

CHERTKOV, A. D., *see* Pudovkin, M. I. *et al.*

- CHERTOK, I. M., V. V. FOMICHEV, A. KRÜGER, and W. WILLIMCZIK / A Search of a Connection between the Polarization of Decam-Type III Bursts and Magnetic Fields in Different Heights of the Solar Atmosphere **25**, 452
- CHERTOK, I. M., *see* Chernov, G. P. *et al.*
- CHEVALIER, R. A. and D. L. LAMBERT / The Excitation of the Forbidden Coronal Lines. I: Fe XIII $\lambda\lambda$ 10747, 10798 and 3388 **10**, 115
- CHEVALIER, R. A. and D. L. LAMBERT / The Excitation of the Forbidden Coronal Lines. II: [Ca VI] $\lambda\lambda$ 5694 and 5446 **11**, 243
- CHIANG, WEI-HWAN and P. FOUKAL / The Influence of Faculae on Sunspot Heat Blocking **97**, 9
- CHIN, Y. C., B. B. LUSIGNAN, and P. C. W. FUNG / Polarisation Measurements of Solar Type III Radio Bursts at 25.3 MHz **16**, 135
- CHIPMAN, E. G. / A Correction to McAllister's 1960 Atlas of the Solar Spectrum **36**, 45 (*Research Notes*)
- CHIPMAN, E. G. / Chromospheric Oscillations Observed in the Line CII λ 1336 with OSO-8 **55**, 277
- CHIPMAN, E., *see* Beckers, J. M.
- CHIPMAN, E., *see* Dumont, S. *et al.*
- CHIPMAN, E., *see* Mouradian, Z. *et al.*
- CHIRALO, R. P. / Digital Enhancement of Solar X-Ray Space Photography **39**, 377
- CHITRE, S. M. / The Evershed Motion in Sunspots **4**, 168
- CHITRE, S. M. and M. H. GOKHALE / Convective Instability in a Compressible Atmosphere **30**, 309
- CHITRE, S. M. and M. H. GOKHALE / The Five-Minute Oscillations in the Solar Atmosphere **43**, 49
- CHITRE, S. M. and G. SHAVIV / A Model of the Sunspot Umbra **2**, 150
- CHITRE, S. M., *see* Antia, H. M.
- CHITRE, S. M., *see* Antia, H. M.
- CHITRE, S. M., *see* Antia, H. M. *et al.*
- CHITRE, S. M., *see* Antia, H. M. *et al.*
- CHITRE, S. M., *see* Antia, H. M. *et al.*
- CHITRE, S. M., *see* Antia, H. M. *et al.*
- CHIU, Y. T. / Theory of Solar Radio Pulsation **13**, 420
- CHIUDERI, C. and G. EINAUDI / Current Confinement in Solar Coronal Loops **73**, 89
- CHIUDERI, C. and C. GIOVANARDI / Acoustic Waves in the Lower Solar Atmosphere **41**, 35
- CHIUDERI, C. and C. GIOVANARDI / Wave Propagation in a Non-Isothermal Atmosphere and the Solar Five-Minute Oscillations **64**, 27
- CHIUDERI, C. and I. RIANI / A Dynamical Model for the Chromosphere-Corona Transition Region **34**, 113
- CHIUDERI, C., F. CHIUDERI DRAGO, and G. NOCI / Radio Model of the Transition Layer in Solar Active Regions **17**, 369
- CHIUDERI, C., F. C. DRAGO, and G. NOCI / Coronal Abundance of Elements and a Model of the Quiet Sun from Radio Observations **26**, 343
- CHIUDERI, C., R. GIACHETTI, and H. ROSENBERG / Non-Linear Wave Coupling in Type IV Solar Radio Bursts **33**, 225
- CHIUDERI, C., R. GIACHETTI, and G. VAN HOVEN / The Structure of Coronal Magnetic Loops. I: Equilibrium Theory **54**, 107
- CHIUDERI, C., *see* Batistoni, P.
- CHIUDERI, C., *see* Einaudi, G. *et al.*
- CHIUDERI, C., *see* Giachetti, R. *et al.*
- CHIUDERI DRAGO, F. / Radio Spectrum of Two Active Regions (Results of the Total Solar Eclipse of Nov. 1966) **13**, 357
- CHIUDERI DRAGO, F. / On the Radio Optical Depth of the Layer Where the Temperatures Equals the Brightness Temperature **27**, 132
- CHIUDERI DRAGO, F. / EUV and Radio Spectrum of Coronal Holes **65**, 237
- CHIUDERI DRAGO, F. and M. FELLI / Radio Maps of the Sun at $\lambda = 1.95$ cm **14**, 171
- CHIUDERI DRAGO, F. and G. G. NOCI / Radio Observation of the Solar Eclipse of May 20, 1966 **7**, 276
- CHIUDERI DRAGO, F. and P. PATRIARCHI / Brightness Distribution at $\lambda = 3$ and 21 cm near the Solar North Pole **37**, 403
- CHIUDERI DRAGO, F. and M. SILVI / The Filament-Corona Transition Region from OSO-VI EUV Observations **55**, 177 (*Research Note*)
- CHIUDERI DRAGO, F., Y. AVIGNON, and R. J. THOMAS / Structure of Coronal Holes from UV and Radio Observations **51**, 143
- CHIUDERI DRAGO, F., R. BANDIERA, R. FALCIANI, E. ANTONUCCI, K. R. LANG, R. F. WILLSON, K. SHIBASAKI, and C. SLOTTJE / Multiple Wavelength Observations of a Solar Active Region **80**, 71
- CHIUDERI DRAGO, F., M. R. KUNDU, and E. J. SCHMAHL / Network to Cell Contrast at Microwaves **85**, 237
- CHIUDERI DRAGO, F., *see* Calamai, G. *et al.*
- CHIUDERI DRAGO, F., *see* Chiuderi, C. *et al.*
- CHIUDERI DRAGO, F., *see* Chiuderi, C. *et al.*
- CHIUDERI DRAGO, F., *see* Shibasaki, K. *et al.*
- CHOUcq-BRUSTON, M., *see* Lemaire, P. *et al.*
- CHRISTENSEN-DALSGAARD, J. and S. FRANDSEN / Radiative Transfer and Solar Oscillations (*Invited Review*) **82**, 165

- CHRISTENSEN-DALSGAARD, J. and S. FRANDSEN / Stellar 5 min Oscillations **82**, 469
- CHRISTENSEN-DALSGAARD, J., *see* Scherrer, P. H. *et al.*
- CHRISTOPHER, L., *see* Siscoe, G. L. *et al.*
- CHRONIC, Halka, *see* Newkirk, Jr., Gordon
- CHUBB, T. A., *see* Meekins, J. F. *et al.*
- CHULTEM, Ts. and N. A. YAKOVKIN / Stationary Equations of Hydrogen Excitation and Ionization in Prominences **34**, 133
- CHUPOVA, L. M., *see* Kovrizhnikh, O. M. *et al.*
- CHUPP, E. L. / High Energy Particle Acceleration in Solar Flares – Observational Aspects **86**, 383
- CHUPP, E. L., *see* Forrest, D. J.
- CHUPP, E. L., *see* Forrest, D. J. *et al.*
- CHUPP, E. L., *see* Suri, A. N. *et al.*
- CIMINO, M. / Solar Physics at the Astronomical Observatory of Rome **2**, 375 (*Report from Solar Institute*)
- CIMINO, M., A. CACCIANI, and N. SOPRANZI / An Instrument to Measure Solar Magnetic Fields by an Atomic-Beam Method **3**, 618
- CIMINO, M., CACCIANI, and M. FOPI / Some Developments of the Magnetic Beam Absorption Filter **11**, 319
- CINI CASTAGNOLI, G., *see* Antonucci, E. *et al.*
- CINI CASTAGNOLI, G., *see* Attolini, M. R. *et al.*
- CLAFLIN, E. S., *see* Haisch, B. M.
- CLARK, Jr., A., *see* Clark, P. A.
- CLARK, Jr., A., *see* Thomas, J. H. *et al.*
- CLARK, Jr., Alfred / Chromospheric Magnetic Fields associated with Supergranulation **4**, 386
- CLARK, Jr., A., / Thermal Models of Sunspots **62**, 305
- CLARK, Jr., Alfred and H. Kevin JOHNSON / Magnetic-Field Accumulation in Supergranules **2**, 433
- CLARK, C. D., *see* Beckman, J. E.
- CLARK, C. D., *see* Beckman, J. E. *et al.*
- CLARK, G. W., *see* Kraushaar, W. L.
- CLARK, M. K., *see* Howard, R. *et al.*
- CLARK, P. A. and A. CLARK, Jr. / Radiative Damping of Trapped Gravity Waves in the Solar Atmosphere **30**, 319
- CLARK, P. A., *see* Thomas, J. H. *et al.*
- CLARK, T. A. and R. T. BOREIKO / Airborne Total Eclipse Observation of the Extreme Solar Limb at 400 μm **76**, 117
- CLARK, T. ALAN and RITA T. BOREIKO / Airborne Total Eclipse Observation of the Extreme Solar Limb at 400 μm (*Addendum*) **83**, 187 (**76**, 117)
- CLAVERIE, A., G. R. ISAAK, C. P. MCLEOD, H. B. VAN DER RAAY, and T. ROCA CORTÈS / Structure of the 5-Minute Solar Oscillations 1976–1980 **74**, 51
- CLAVERIE, A., G. R. ISAAK, and C. P. MCLEOD / Short-Period Intensity Fluctuations of Integral Sunlight **74**, 73
- CLAVERIE, A., G. R. ISAAK, C. P. MCLEOD, H. B. VAN DER RAAY, and T. ROCA CORTÈS / Rotational Splitting of Solar Five-Minute Oscillations of Low Degree **82**, 233 (*Invited Review, Abstract*)
- CLETTE, F., P. CUGNON, and A. KOECKELENBERGH / Observations of the Solar Corona in Polarized White Light during the Total Solar Eclipse of February 16, 1980: Preliminary Results **98**, 163
- CLINE, T. L. and F. B. McDONALD / Relativistic Electrons from Solar Flares **5**, 507
- CLIVER, E. W. / Prompt Injection of Relativistic Protons from the September 1, 1971 Solar Flare **75**, 341
- CLIVER, E. W. / Secondary Peaks in Solar Microwave Outbursts **84**, 347
- CLIVER, E. W. and F. L. WEFER / Observations of an Unusual Pair of Homologous Flares on March 17, 1970 **71**, 39
- CLIVER, E. W., M. D. HURST, F. L. WEFER, and M. P. BLEIWEISS / Quasi-Periodic Burst Structure at 2.8 GHz and its Relationship to Burst Morphological Parameters **48**, 307
- CLIVER, E. W., S. W. KAHLER, H. V. CANE, M. J. KOOMEN, D. J. MICHELS, R. A. HOWARD, and N. R. SHEELEY, JR. / The GLE-Associated Flare of 21 August 1979 **89**, 181
- CLIVER, E. W., *see* Neidig, D. F.
- COFFEY, H. E. and P. A. GILMAN / Sunspot Motion Statistics for 1965–67 **9**, 423 (*Research Note*)
- COGDELL, J. R. / Pencil Beam Observation of a Large Microwave Outburst at 94.8 GHz **22**, 147 (*Research Note*)
- COHEN, G. G. and D. W. KEITH / X-Ray Temperature-Emission Measure Modeling of the Solar Corona **63**, 165
- COHEN, M., *see* Heroux, L. *et al.*
- COLBURN, D. S., *see* Severny, A. *et al.*
- COLE, T. W. / Periodicities in Solar Activity **30**, 103
- COLE, T. W., *see* Stewart, R. T. *et al.*
- COLEMAN, Jr., P. J., *see* Siscoe, G. L.
- COLGATE, S. A. / Thermal Effects in Flares **53**, 297
- COLGATE, S. A. and E. P. MOORE / Automatic Solar Image Motion Measurements **41**, 487
- COLLINS, B. S., *see* Blackwell, D. E. *et al.*
- COLLINS, B. S., *see* Petford, A. D. *et al.*

- CONDON, J. J. and R. R. SCHMIDT / Planetary Tides and Sunspot Cycles **42**, 529
- CONNERADE, J. P. / On the Accuracy of Hartree-Fock Theoretical Wavelengths in the XUV **21**, 40 (*Research Note*)
- CONNERADE, J. P. / Further Identifications in the Ar IX Spectrum **27**, 130 (*Research Note*)
- CONNERADE, J. P., N. J. PEACOCK, and R. J. SPEER / The Spectrum of Multiply Ionized Iron between 10 and 17 Å **14**, 159
- CONNERADE, J. P., N. J. PEACOCK, and R. J. SPEER / The Spectrum of Multiply Ionized Argon between 10 and 17 Å **17**, 269 (**14**, 159)
- CONNERADE, J. P., N. J. PEACOCK, and R. J. SPEER / The Spectrum of Multiply Ionized Argon between 20 and 40 Ångstroms **18**, 63
- COOK, J. W. and O. KJELDSETH MOE / Quiet Sun Observations of the Al I Autoionization Lines λ 1932 and λ 1936 **76**, 109
- COOK, J. W., *see* Kjeldseth Moe, O. *et al.*
- COOK, J. W., *see* Vanhoosier, M. E. *et al.*
- COPLAN, M. A., K. W. OGILVIE, P. BOCHSLER, and J. GEISS / Interpretation of ^3He Abundance Variations in the Solar Wind **93**, 415
- COPLAN, M. A., *see* Kunz, S. *et al.*
- CORONITI, F. V. / Reconnection in the Earth's Magnetosphere **47**, 317 (extended abstract)
- CORREIA, E., *see* Kaufmann, P. *et al.*
- CORREIA, E., *see* Kaufmann, P. *et al.*
- CORREIA, E., *see* Loran, J. M. *et al.*
- CORTELESSA, P. and C. PAIZIS / White Light Flares: Protons or Electrons? **42**, 421
- CORTELESSA, P., P. DI BENEDETTO, and C. PAIZIS / A Search for Solar Neutrons near Solar Maximum **14**, 427
- CORTELESSA, P., P. DI BENEDETTO, and C. PAIZIS / A Search for Solar Neutrons near Solar Maximum, II **20**, 474
- COSTA, J. E. R., P. KAUFMANN, and T. TAKAKURA / Timing Analysis of Hard X-Ray Emission and 22 GHz Flux and Polarization in a Solar Burst **94**, 369
- COSTA, J. E. R., *see* Degaonkar, S. S. *et al.*
- COSTA, J. E. R., *see* Kaufmann, P. *et al.*
- COSTA, J. E. R., *see* Kaufmann, P. *et al.*
- COSTA, J. E. R., *see* Kaufmann, P. *et al.*
- COSTA, J. E. R., *see* Kaufmann, P. *et al.*
- COULMAN, C. E. / A Quantitative Treatment of Solar 'Seeing', I **7**, 122
- COULMAN, C. E. / A Quantitative Treatment of Solar 'Seeing'. II: Microthermal Measurements in the Immediate Vicinity of Telescopes **34**, 491
- COURTEN, H. C. / Comet Searches during Four Major Eclipses **21**, 495
- COVINGTON, A. E. / Algonquin Radio Observatory, Lake Traverse, Ont., Canada **9**, 241 (*Report from Solar Institute*)
- COVINGTON, A. E. / Observations and Comments for the Solar Event of 24 October, 1969 **24**, 405
- COVINGTON, A. E. / Decrease of 2800 MHz Solar Radio Emission Associated with a Moving Dark Filament before the Flare of May 19, 1969 **33**, 439
- COVINGTON, A. E. / Discontinuity in the Microwave Slowly Varying Component Observed at 20:02 UT, June 16, 1972 **39**, 153 (*Research Note*)
- COVINGTON, A. E. / Coronal X-Ray Holes and the Quiet Radio Sun at 2800 MHz **54**, 393
- COVINGTON, A. E., T. H. LEGG, and M. B. BELL / A High-Resolution 2800 MHz Multi-Element Interferometer **1**, 465
- COVINGTON, A. E., *see* Basu, D.
- COVINGTON, A. E., *see* Bell, M. B. *et al.*
- COVINGTON, A. E., *see* Tanaka, H. *et al.*
- COWAN, R. D., *see* Doschek, G. A.
- COWAN, R. D., *see* Fawcett, B. C.
- CRAIG, T. A., *see* Howard, R. *et al.*
- CRAIG, I. J. D. / The Thermal Nature of Soft X-Ray Flares **31**, 197
- CRAIG, I. J. D. / A Relaxation Law for Evaporating and Draining Coronal Plasmas **84**, 105 (*Research Note*)
- CRAIG, I. J. D. and A. N. MCCLYMONT / Mass Motions in a Heated Flare Filament **50**, 133
- CRAIG, I. J. D. and A. N. MCCLYMONT / The Dynamic Formation of Quasi-Static Active Region Loops **70**, 97
- CRAIG, I. J. D. and J. W. DAVYS / Heat Flux Saturation in Hydrodynamic Soft X-Ray Solar Flare Plasmas **90**, 343
- CRAIG, I. J. D., T. D. ROBB, and M. D. ROLLO / The Stability and Uniqueness of Coronal Loops **76**, 331
- CRAIG, I. J. D., *see* Brown, J. C. *et al.*
- CRAIG, I. J. D., *see* Herring, J. R. H.
- CRAM, L. E. / Multi-Component Models for the Formation of the Chromospheric Ca II K Line. II: The Effect of Velocity Fields **22**, 375
- CRAM, L. E. / High Resolution Spectroscopy of the Disk Chromosphere. IV: Evidence for the Propagation and Dissipation of Mechanical Energy in the Chromosphere **37**, 75
- CRAM, L. E. / Determination of the Temperature of the Solar Corona from the Spectrum of the Electron-Scattering Continuum **48**, 3
- CRAM, L. E. / Sacramento Peak Observatory **69**, 411 (*Report from Solar Observatory*)

- CRAM, L. E. and I. M. VARDAS / Resonance Line Scattering from Optically Thin Structures Located above the Solar Limb **57**, 27
- CRAM, L. E. and P. R. WILSON / Hydromagnetic Waves in Structured Magnetic Fields **41**, 313
- CRAM, L. E., C. J. DURRANT, and U. GROSSMANN-DOERTH / Some Comments on Sui-moto's Paper 'An Empirical, Statistical Model for the Formation of the Cores of Chromospheric Fraunhofer Lines' **58**, 279
- CRAM, L. E., R. D. ROBINSON, H. A. MAUTER, G. R. MANN, and G. L. PHILLIS / High Resolution Spectroscopy of Solar Activity. I: Observing Procedures **71**, 237
- CRAM, L., *see* Dame, L.
- CRAM, L., *see* Kovitya, P.
- CRAM, L. E., *see* Vardavas, I. M.
- CRAM, L. E., *see* Woods, D. T.
- CRAM, L. E., *see* Zwaan, C. *et al.*
- CRAMER, N. F. and I. J. DONNELLY / Perturbations of a Twisted Solar Coronal Loop: The Relation between Surface Waves and Instabilities **99**, 119
- CRANNELL, C. J., *see* Thomas, R. J. *et al.*
- CRANNELL, C. J., *see* Wiehl, H. J. *et al.*
- CRIFO, F., J. P. PICAT, and M. CAILLOUX / Coronal Transients: Loop or Bubble? **83**, 143
- CRIST, H. W., *see* Howard, R. *et al.*
- CROCE, V., *see* Cacciani, A. *et al.*
- CROCKETT, G., *see* Baum, P. J. *et al.*
- CROMMELYNCK, D. / The Observation of the Solar Irradiance and Its Variations, Challenging Space Meteorology **74**, 509
- CROMWELL, D., *see* Brown, J. C. *et al.*
- CROOKER, N. U., *see* Siscoe, G. L. *et al.*
- CROOM, D. L. / 71 GHz (4.2 mm) Solar Radio Bursts in the Period July 1967 to December 1965 **15**, 414
- CROOM, D. L. / Forecasting the Intensity of Solar Proton Events from the Time Characteristics of Solar Microwave Bursts **19**, 171
- CROOM, D. L. / Solar Microwave Bursts as Indicators of the Occurrence of Solar Proton Emission **19**, 152
- CROOM, D. L. and R. J. POWELL / Solar Activity at $\lambda = 15.8$ mm (19 GHz) during the Period 27 October–4 November 1968 and Its Relation to Proton Events **14**, 221
- CROOM, D. L. and R. J. POWELL / 19 GHz (1.58 cm) Solar Radio Bursts in the Period July 1967 to December 1969 **20**, 136
- CROOM, D. L., R. J. POWELL, and L. J. HARRIS / Slough Solar Radio Observatory **14**, 238 (*Report from Solar Institute*)
- CROSS, M. A. and J. V. BLOCKWOOD / Structures in a Non-Magnetic Solar Corona **38**, 157
- CSADA, J. K. / Short Period Variation of the Photospheric Magnetic Field **35**, 325
- CSADA, I. K. / Large-Scale Magnetic Dipole and Multipole Progressive Waves in the Atmosphere **47**, 5
- CSADA, I. K. / Progressive Dipole Waves as the Constituents of the 22-Year Magnetic Cycle **58**, 423
- CSADA, I. K. / On the Non-Symmetric Solar Dynamo **74**, 103
- CSADA, I. K. / Evidence for the Phi-Dependent Rotation-Oscillation of the Sun (and for the Driving Mechanism of the Asymmetric Solar Dynamo) **82**, 439
- CSOEKE-POECKH, A., *see* MacQueen, R. M. *et al.*
- CUGNON, P., *see* Clette, F. *et al.*
- CULHANE, J. L. and K. J. H. PHILLIPS / Solar X-Ray Bursts at Energies Less than 10 keV Observed with OSO-4 **11**, 117
- CULHANE, J. L., J. F. VESECKY, and K. J. H. PHILLIPS / The Cooling of Flare Produced Plasmas in the Solar Corona **15**, 394
- CULHANE, J. L., *see* Acton, L. W. *et al.*
- CULHANE, J. L., *see* Acton, L. W. *et al.*
- CULHANE, J. L., *see* Antonucci, E. *et al.*
- CULHANE, J. L., *see* Phillips, K. J. H.
- CUMINGS, N. P., *see* Hagyard, M. J. *et al.*
- CUMINGS, N. P., *see* Hagyard, M. J. *et al.*
- CUMINGS, N. P., *see* Krall, K. R. *et al.*
- CUNY, Y. / Contribution à l'étude du spectre solaire de l'hydrogène **3**, 204
- CUNY, Y. / Interpretation of the Solar Continuum from 1680 to 600 Å. Model of the Transition Region Photosphere-Chromosphere and of the Chromosphere **16**, 293
- CUNY, Y., *see* Gingerich, O. *et al.*
- CUPERMAN, S. and A. STERNLIEB / Evidence for Two Maxima of Activity in the 20th Solar Cycle **25**, 493
- CUPERMAN, S., *see* Roelof, E. C. *et al.*
- CUSHMAN, G. W. and W. A. RENSE / Solar He II (304 Å) and Si XI (303 Å) Line Profiles **58**, 299
- CZAJA, K., *see* Fay, T. *et al.*
- DAENE, H. and F. W. JÄGER / Solar Research at the Heinrich-Hertz-Institut für Solarertrische Physik **4**, 489 (*Report from Solar Institute*)
- DAME, L. and L. CRAM / White-Light Radiation from Semi-Empirical Flare Models **87**, 329
- D'ANGELO, N. / Heating of the Solar Corona **7**, 321
- DANIEL, R. R., G. S. GOKHALE, G. JOSEPH, P. J. LAVAKARE and B. S. SEKHON / A Search for

- Energetic Neutrons Emitted during Solar Flares **10**, 465
- DANIEL, R. R., *see* Anand, K. C.
- DA ROSA, A. V., *see* Garriott, O. K.
- DAS, G. C. / Characteristics of Damping of the Pulses in the Sun **71**, 215
- DAS GUPTA, M. K. and S. K. SARKAR / Spectrum of Average Flux of the S-Component of Solar Radio Emission **18**, 276
- DAS GUPTA, M. K. and S. K. SARKAR / Some Studies on the Solar Microwave Bursts in Relation to the Slowly Varying Component **26**, 378
- DAS GUPTA, M. K., T. CHATTOPADHYAY, and S. K. SARKAR / Some Studies on H α -Flares and Microwave Bursts in Relation to Sunspot Magnetic Configurations **51**, 409 (*Research Note*)
- DAS GUPTA, M. K., T. K. DAS, and S. K. SARKAR / A Comparative Study of H α -Flares of Different Visual Features in Relation to Radio Bursts and Sunspots **64**, 323
- DAS GUPTA, M. K., T. K. DAS, and S. K. SARKAR / Wide-Band Average Spectra of Solar Radio Bursts **67**, 109
- DAS GUPTA, M. K., T. K. DAS, and S. K. SARKAR / The Role of Photospheric Magnetic Field in the Development of Solar Flares **69**, 131 (*Research Note*)
- DAS GUPTA, M. K., *see* Das, T. K.
- DAS GUPTA, M. K., *see* Sarkar, S. K. *et al.*
- DAS, T. K. and M. K. DAS GUPTA / Distribution of Sunspots according to Their Magnetic Fluxes **78**, 67 (*Research Note*)
- DAS, T. K., *see* Das Gupta, M. K. *et al.*
- DAS, T. K., *see* Das Gupta, M. K. *et al.*
- DAS, T. K., *see* Das Gupta, M. K. *et al.*
- DATLOWE, D. / Relativistic Electrons in Solar Particle Events **17**, 436
- DATLOWE, D. W. and R. P. LIN / Evidence for Thin-Target X-Ray Emission in a Small Solar Flare on 26 February 1972 **32**, 459
- DATLOWE, D. W., M. J. ELCAN, and H. S. HUDSON / OSO-7 Observations of Solar X-Rays in the Energy Range 10–100 keV **39**, 155
- DATLOWE, D. W., H. S. HUDSON, and L. E. PETERSON / Observations of Solar X-Ray Bursts in the Energy Range 5–15 keV **35**, 193
- DATLOWE, D. W., *see* McKenzie, D. L. *et al.*
- DATLOWE, D. W., *see* Moore, R. L.
- DATLOWE, D. W., *see* Roy, J.-R.
- DATLOWE, D. W., *see* Wolfson, C. J. *et al.*
- DAVIES-JONES, R. P. and P. A. GILMAN / On Large-Scale Solar Convection **12**, 3
- DAVIS, J. and J. E. ROGERSON / Comparison of Flare Bremsstrahlung Resulting from Energetic Thermal and Nonthermal Electrons **51**, 185
- DAVIS, J., *see* Spicer, D. S.
- DAVIS, J. M. / X-Ray Bright Points and the Sunspot Cycle: Further Results and Predictions **88**, 337
- DAVIS, J. M. / Small-Scale Flux Emergence and the Evolution of Equatorial Coronal Holes **95**, 73
- DAVIS, J. M. and A. S. KRIEGER / Properties of Coronal Arches **80**, 295
- DAVIS, J. M. and A. S. KRIEGER / The Growth of Filaments by the Condensation of Coronal Arches **81**, 325
- DAVIS, J. M., M. GERASSIMENKO, and A. S. KRIEGER / The Interpretation of Simultaneous Soft X-Ray Spectroscopic and Imaging Observations of an Active Region **45**, 393
- DAVIS, J. M., *see* Evans, K. D. *et al.*
- DAVIS, J. M., *see* Kahler, S. W. *et al.*
- DAVIS, J. M., *see* Kahler, S. W. *et al.*
- DAVIS, J. M., *see* Nolte, J. T. *et al.*
- DAVIS, J. M., *see* Nolte, J. T. *et al.*
- DAVIS, J. M., *see* Webb, D. F. *et al.*
- DAVIS, J. M., *see* Webb, D. F. *et al.*
- DAVIS, M. J., *see* Garriott, O. K.
- DAVIS, W. D. / Measurement of Plasma Wave Electric Fields in Solar Flares **54**, 139
- DAVIS, W. D., *see* Smith, D. F.
- DAVYS, J. W., *see* Craig, I. J. D.
- DAY, R. W. / The [CaII] λ 7323.90 Line in the Solar Spectrum **36**, 25 (*Research Note*)
- D'AZAMBUJA, LUCIEN / 'In Memoriam' by JEAN RÖSCH **15**, 261
- DE BIBHAS, R. / On the Mechanism of Formation of Loop Prominences **31**, 437
- DE, BIBHAS R. / On the Mechanism of Formation of Loop Prominences (*Errata*) **33**, 262 (**31**, 437)
- DE BOER, K. S. and S. R. POTTASCH / On the Abundance of Calcium in the Solar Corona **23**, 406 (*Research Note*)
- DE DONCKER, E., *see* Van Rensbergen, W. *et al.*
- DE FEITER, L. D. / On the Flux of Gamma Rays from Solar Flares **19**, 207 (*Research Note*)
- DE FEITER, L. D. / The Aims of the Flare Build-up Study (Introduction) **47**, 15
- DE FEITER, L. D. and C. DE JAGER / Superthermal Plasma Nodules and Their Relation to Solar Flares **28**, 183
- DE FEITER, L. D. and Z. ŠVESTKA / On the Behavior of the Hydrogen Lyman Series in Flares **41**, 415
- DE FEITER, L. D., *see* Krieger, A. S. *et al.*
- DE FEITER, LEEN / 'In Memoriam' **47**, 1
- DE GOUVEIA, E. M. and P. D. SINGH / The 3410 Å Band of the PH Molecule in the Solar Photospheric Spectrum **90**, 259
- DE GRAAFF, W., *see* Van Gils, J. N.

- DE GROOT, T. / Solar Radio Spectra between 160 and 320 MHz **14**, 176
- DE GROOT, T. and J. VAN NIEUWKOOP / Some Preliminary Results of Multi-Channel Radio-spectrography **4**, 332
- DE GROOT, T., J. LOONEN, and C. SLOTTJE / Chains of Type I Stormbursts **48**, 321
- DE JAGER, C. / The Hard Solar X-Ray Burst of 18 September 1963 **2**, 327
- DE JAGER, C. / Note on Solar Hard X-Ray Bursts **2**, 347
- DE JAGER, C. / Micro- and Macroturbulent Motions and the Velocity Spectrum of the Solar Photosphere **25**, 71
- DE JAGER, C. / The Influence of a Photospheric Spectrum of Turbulence on the Profiles of Weak Fraunhofer Lines **34**, 91
- DE JAGER, C. / Phenomenology of the Subflare; a Synthesis of CINOF **40**, 133
- DE JAGER, C. / On the Seats of Elementary Flare Bursts **64**, 135
- DE JAGER, C. / Reflections on Solar Variability **74**, 11
- DE JAGER, C. / Development of Flare Morphology in X-Rays, and the Flare Scenario **86**, 21
- DE JAGER, C. / Coronal Explosions **96**, 143
- DE JAGER, C. / Kernal Heating and Ablation in the Impulsive Phase of Two Solar Flares **98**, 267
- DE JAGER, C. and A. BOELEEE / Impulsive Phase Heating and a Coronal Explosion in a Solar Flare **92**, 227
- DE JAGER, C. and G. DE JONGE / Properties of Elementary Flare Bursts **58**, 127
- DE JAGER, C. and C. DE LOORE / On the Ratio between the Mechanical Fluxes in- and outside the Solar Chromospheric Mottles **13**, 126
- DE JAGER, C. and L. NEVEN / A Systematic Method for the Analysis of High-Resolution Fraunhofer Line Profiles **1**, 27
- DE JAGER, C. and L. NEVEN / Source Functions in the Cores of Infrared Fraunhofer Lines **3**, 159
- DE JAGER, C. and L. NEVEN / On the Occurrence of Convective Motions in the Upper Photosphere **4**, 379
- DE JAGER, C. and L. NEVEN / Damping Constants for Infrared Fraunhofer Lines **11**, 3
- DE JAGER, C. and L. NEVEN / On the Applicability of Goldberg and Unno's Method to the Determination of Microturbulent Velocities in an Atmosphere with Convection **22**, 49
- DE JAGER, C. and L. NEVEN / The Empirical Determination of Line Source Functions, β_t -Values, and the Microturbulent and Convective Velocity Components as Functions of Depth in the Photosphere-Chromosphere Transition Region **25**, 277
- DE JAGER, C. and Z. ŠVESTKA / 21 May 1980 Flare Review **100**, 435 (*Invited Review*)
- DE JAGER, C. and J. VERMUE / Improved Values for the Solar Micro- and Macro-Turbulent Filter Functions **54**, 313
- DE JAGER, C., A. BOELEEE, and D. M. RUST / Spatial Development of X-Ray Emission during the Impulsive Phase of a Solar Flare **92**, 245
- DE JAGER, C., M. E. MACHADO, A. SCHADEE, K. T. STRONG, Z. ŠVESTKA, B. E. WOODGATE, and W. VAN TEND / The Queen's Flare: Its Structure and Development; Precursors, Pre-Flare Brightenings, and Aftermaths **84**, 205
- DE JAGER, C., *see* De Feiter, L. D.
- DE JAGER, C., *see* Fokker, A. D. *et al.*
- DE JAGER, C., *see* Gingerich, O.
- DE JAGER, C., *see* Gurtovenko, E. *et al.*
- DE JAGER, C., *see* Kattenberg, A. *et al.*
- DE JAGER, C., *see* Machado, M. E. *et al.*
- DE JAGER, C., *see* Rutten, R. J. *et al.*
- DE JAGER, C., *see* Schadee, A. *et al.*
- DE JAGER, C., *see* Švestka, Z. *et al.*
- DE JONGE, G., *see* De Jager, C.
- DE LA NOË, J. / On the Probability of Occurrence of the Type IIIb Bursts as a Precursor **37**, 225
- DE LA NOË, J. and T. E. GERGELY / The Spectrum of Position of Solar Noise Storms at Decameter Wavelengths **55**, 195
- DE LA NOË, J., B. MØLLER-PEDERSEN, and A. BOISCHOT / Directivity in the Stream-Plasma Interaction **46**, 505
- DE LA NOË, J., *see* Leblanc, Y.
- DE LA REZA, R. and E. A. MÜLLER / The Potassium Abundance in the Solar Photosphere **43**, 15
- DE LA REZA, R., *see* Müller, E. A. *et al.*
- DE LOORE, C., *see* De Jager, C.
- DE LOORE, C., *see* Vanbeveren, D.
- DE MEYER, F. / Mathematical Modelling of the Sunspot Cycle **70**, 259
- DE PAN, LIAN, R. P. LIN, and S. R. KANE / Comparisons of Solar Flare X-Ray Producing and Escaping Electrons from ~ 2 to 100 keV **91**, 345
- DE VEGVAR, P., *see* Beckers, J. M.
- DECKER, W. J., *see* Swanson, P. N. *et al.*
- DEFOUW, R. J. / Convective Instability of a Model Chromosphere **14**, 42
- DEGAONKAR, S. S. and H. W. URBARZ / Spectral Evidence of Type II Shock Influence on Razin-Cutoff Frequency in the Decametric Type IV Continuum **84**, 285 (*Research Note*)
- DEGAONKAR, S. S., T. TAKAKURA, P. KAUFMANN, J. E. R. COSTA, K. OHKI, and N. NITTA / Short-Period Pulsations Observed Simultaneously by X-Ray and Radio Waves (Abstract) **86**, 237

- DEGAONKAR, S. S., *see* Bhonsle, R. V.
- DEGAONKAR, S. S., *see* Takakura, T. *et al.*
- DEGL'INNOCENTI, E. L. and G. NOCI / A Search for Continuous Ultraviolet Opacity Sources in the Sun's Photosphere **29**, 287
- DELBUILLE, L., *see* Biémont, E. *et al.*
- DELIYANNIS, J., D. PAPATHANASOGLU, and M. STATHOPOULOUTSOGA / On the Variation of the Direct Solar Radiation during the Annular Solar Eclipse of April 29, 1976 **62**, 401
- DELOACH, A. C., M. J. HAGYARD, D. RABIN, R. L. MOORE, J. B. SMITH, JR., E. A. WEST, and E. TANDBERG-HANSEN / Photospheric Electric Current and Transition Region Brightness within an Active Region **91**, 235
- DELONE, A. and E. MAKAROVA / Preliminary Report on Photographing the Solar Corona in 5303 Å with a Polaroid and a Fabry-Pérot Interferometer During the Total Solar Eclipse of September 22, 1968 **9**, 446 (*Research Note*)
- DELONE, A. B. and E. A. MAKAROVA / Interferometric Investigation of the Red and Green Coronal Lines during the Total Solar Eclipse of May 30, 1965 **9**, 116
- DELONE, A. B. and E. A. MAKAROVA / Interferometric Investigation of the Line-of-Sight Velocities in $\lambda 5303$ during the Eclipse of 22 September, 1968 **45**, 157
- DELONE, A. B. and E. A. MAKAROVA / Interferometric Investigation of the Line-of-Sight Velocities in $\lambda 5303$ during the Eclipse of 22 September, 1968 (*Errata*) **45**, 550 (**45**, 157)
- DEMASTUS, H. L., W. J. WAGNER, and R. D. ROBINSON / Coronal Disturbances. I: Fast Transient Events Observed in the Green Coronal Emission Line during the Last Solar Cycle **31**, 449
- DEMASTUS, H. L., *see* Bruzek, A.
- DEMIANSKI, M. and J. M. PASACHOFF / Coelostat and Heliostat: Theory of Alignment **93**, 211
- DEMING, D., J. J. HILLMAN, T. KOSTIUK, M. J. MUMMA, and D. M. ZIPOY / Thermal Bifurcation in the Upper Photosphere Inferred from Heterodyne Spectroscopy of OH Rotational Lines **94**, 57
- DEMKINA, L. B., *see* Obridko, V. N.
- DENISENKO, V. V., V. A. KOTOV, V. A. ROMANOV, and V. S. SOKOLOV / Potential Models of the Unipolar Sunspot Magnetic Field **81**, 217
- DENNIS, B. R. / Solar Hard X-Ray Bursts **100**, 465 (*Invited Review*)
- DENNIS, B. R., A. O. BENZ, M. RANIERI, and G. M. SIMNETT / Decimetric Type III Radio Bursts and Associated Hard X-Ray Spikes **90**, 383
- DENNIS, B. R., *see* Antonucci, E.
- DENNIS, B. R., *see* Antonucci, E. *et al.*
- DENNIS, B. R., *see* Bai, T. *et al.*
- DENNIS, B. R., *see* Benz, A. O. *et al.*
- DENNIS, B. R., *see* Doyle, J. G. *et al.*
- DENNIS, B. R., *see* Kaufmann, P. *et al.*
- DENNIS, B. R., *see* Kaufmann, P. *et al.*
- DENNIS, B. R., *see* Kiplinger, A. L. *et al.*
- DENNIS, B. R., *see* Machado, M. E. *et al.*
- DENNIS, B. R., *see* MacNeice, P. *et al.*
- DENNIS, B. R., *see* Orwig, L. E. *et al.*
- DENNIS, B. R., *see* Strong, K. *et al.*
- DENNIS, B. R., *see* Švestka, Z. *et al.*
- DENNIS, B. R., *see* Švestka, Z. *et al.*
- DENNIS, B. R., *see* Wiehl, H. J. *et al.*
- DENOTH, F., *see* Antonucci, E. *et al.*
- DERE, K. P. / Extreme Ultraviolet Spectra of Solar Active Regions and Their Analysis **77**, 77
- DERE, K. P. / The XUV Structure of Solar Active Regions **75**, 189
- DERE, K. P., D. M. HORAN, and R. W. KREPLIN / A Multi-Thermal Analysis of Solar X-Ray Emission **36**, 459
- DERE, K. P., *see* Horan, D. M. *et al.*
- DERE, K. P., *see* Widing, K. G.
- DERIDDER, G. and W. VAN RENSBERGEN / Line Broadening Calculations for Some Infrared Solar Fraunhofer Lines **34**, 77
- DERIDDER, G., *see* Van Rensbergen, W.
- DERIDDER, G., *see* Van Rensbergen, W. *et al.*
- DESHPANDE, S. D. and J. N. TANDON / Soft X-Ray Enhancement during Flares **13**, 462
- DEUBNER, Franz Ludwig / Some Properties of Velocity Fields in the Solar Photosphere **2**, 133
- DEUBNER, Franz Ludwig / On the Influence of Seeing on Photospheric Velocity Measurements **3**, 439
- DEUBNER, Franz Ludwig and R. LIEDLER / The Vector magnetograph of the Fraunhofer Institut **7**, 87
- DEUBNER, F.-L. / Some Properties of Velocity Fields in the Solar Photosphere. II: The Spatial Distribution of the Oscillatory Field **9**, 343 (*Research Note*)
- DEUBNER, F. L. / Some Properties of Velocity Fields in the Solar Photosphere. III: Oscillatory and Supergranular Motions as a Function of Height **17**, 6
- DEUBNER, F. L. / Some Properties of Velocity Fields in the Solar Photosphere. IV: Long Periods, Five Minute Oscillations, and the Supergranulation at Lower Layers **22**, 263
- DEUBNER, F. L. / On the Powerspectrum of the Photospheric Resonance Oscillations **23**, 304 (*Research Note*)
- DEUBNER, F. L. / On the Energy Distribution in

- Wavenumber Spectra of the Granular Velocity Field **36**, 299 (*Research Note*)
- DEUBNER, F.-L. / Some Properties of Velocity Fields in the Solar Photosphere. V: Spatio-Temporal Analysis of High Resolution Spectra **39**, 31
- DEUBNER, F. L. / Acoustic Waves and the Geometric Scale in the Solar Atmosphere **40**, 333 (*Research Note*)
- DEUBNER, F. L. / Helioseismology with High Degree p -Modes **82**, 103 (*Invited Review*)
- DEUBNER, F.-L. and R. GÖHRING / Photoelectric Polarimetry of a Dark Unipolar Sunspot **13**, 118
- DEUBNER, F.-L. and N. HAYASHI / Is There Horizontal Phase Propagation of 5-min Oscillations at High Velocities? **30**, 39
- DEUBNER, F. L. and J. LAUFER / Short-Period Oscillations **82**, 151
- DEUBNER, F.-L. and M. VAZQUEZ / Differential Rotation and the Spot Zones **43**, 87 (*Research Note*)
- DEVORE, C. R., N. R. SHEELEY, JR., and J. P. BORIS / The Concentration of the Large-Scale Solar Magnetic Field by a Meridional Surface Flow **92**, 1
- DEVORE, C. R., *see* Sheeley, Jr., N. R. *et al.*
- DEZSÖ, L. / Debrecen Heliophysical Observatory **2**, 129 (*Report from Solar Institute*)
- DEZSÖ, L. / Debrecen Heliophysical Observatory **79**, 195 (*Report from Solar Institute*)
- DEZSÖ, L., L. GESZTELYI, L. KONDÁS, Á. KOVÁCS, and S. ROSTÁS / Motions in the Solar Atmosphere Associated with the White Light Flare of 11 July 1978 **67**, 317
- DI BENEDETTO, P., *see* Cortellessa, P. *et al.*
- DIALETIS, D., *see* Prokakis, Th.
- DICKE, R. H. / The Enigmatic Periodicity of the Solar Oblateness **37**, 271
- DICKE, R. H. / Evidence for a Solar Distortion Rotating with a Period of 12.2 Days **47**, 475
- DICKE, R. H. / A Magnetic Core in the Sun? The Solar Rotator **78**, 3
- DIEMEL, W. E., *see* Namba, O.
- DIJKSTRA, J. H., *see* Burger, M.
- DILWORTH, C., D. MACCAGNI, F. PEROTTI, E. G. TANZI, J. P. MERCIER, A. RAVIART, L. TREGUER, and M. GROS / High Energy Electrons Detected during Solar Flares **23**, 487
- DING, Y. J., *see* Gu, X. M. *et al.*
- DINGLE, L. A., G. VAN HOVEN, and P. A. STURROCK / Test for Planetary Influences on Solar Activity **31**, 243
- DIODATO, L., G. MORENO, and C. SIGNORINI / Magnetic and Thermal Energies in the Solar Wind **40**, 231
- DIODATO, L., *see* Mariani, F. *et al.*
- DITTMER, P. H. / The Relationship between Solar Flares and Solar Sector Boundaries **41**, 227
- DITTMER, P. H., P. H. SCHERRER, and J. M. WILCOX / An Observational Search for Large-Scale Organization of Five-Minute Oscillations on the Sun **57**, 3
- DITTMER, P. H., *see* Scherrer, P. H. *et al.*
- DIZER, M. / Kandilli Observatory, Istanbul **3**, 491 (*Report from Solar Institute*)
- DIZER, M. / A Typical Twisted Surge on November 10, 1967 **4**, 99 (*Research Note*)
- DIZER, M. / Isophotal Photometry and Morphological Changes in the Flares **10**, 416
- DIZER, M. / A Loop Prominence System Observed on May 24, 1972 **59**, 357 (*Research Note*)
- DMITRENKO, V. V., *see* Volobuyev, S. A. *et al.*
- DOBROWOLNY, M., B. BAVASSANO, F. MARIANI, and N. NESS / Magnetic Dips in the Solar Wind **62**, 203
- DOBROWOLNY, M., *see* Bavassano, B. *et al.*
- DOBROWOLNY, M., *see* Bavassano, B. *et al.*
- DODERO, M. A., *see* Antonucci, E.
- DODERO, M. A., *see* Antonucci, E.
- DODERO, M. A., *see* Antonucci, E. *et al.*
- DODERO, M. A., *see* Antonucci, E. *et al.*
- DODGE, J. C. / Source Regions for Type II Radio Bursts **42**, 445
- DODSON, Helen W. and E. Ruth HEDEMAN / The Proton Flare of August 28, 1966 **4**, 229
- DODSON, Helen W. and E. Ruth HEDEMAN / Solar Circumstances at the Time of the Cosmic Ray Increase on January 28, 1967 **9**, 278
- DODSON, H. W. and E. R. HEDEMAN / Major H α Flares in Centers of Activity with Very Small or No Spots **13**, 401
- DODSON, H. W. and E. R. HEDEMAN / Comments on the Course of Solar Activity during the Declining Phase of Solar Cycle 20 (1970-74) **42**, 121
- DODSON, H. W. and E. R. HEDEMAN / Some Comments on Flares after Many Years of Observation **47**, 267
- DODSON, H. W., E. R. HEDEMAN, and M. ROVIRA DE MICELI / Comments on Filament-Disintegration
- DODSON, Helen W., Ruth HEDEMAN, Stephen W. KAHLER, and Robert P. LIN / The Solar Particle Event of July 16-19, 1966 and its Possible Association with a Flare on the Invisible Solar Hemisphere **6**, 294
- DODSON, Helen W., *see* Mohler, Orren C.

- gration and Its Relation to Other Aspects of Solar Activity **23**, 360
- DODSON, H. W., *see* Roelof, E. C. *et al.*
- DODSON-PRINCE, H. W., *see* Švestka, Z. *et al.*
- DODSON-PRINCE, H. W., *see* Švestka, Z. *et al.*
- DOGIEL, V. A. / Maunder Convection Mode on the Sun and Long Solar Activity Minima **82**, 427
- DOLIDZE, V. CH., *see* Hurley, K. *et al.*
- DOLLFUS, A. and M. J. MARTRES / Electrons in the Solar Corona. II: Coronal Streamers from K-Coronameter Measurements **53**, 449
- DOLLFUS, A. and Z. MOURADIAN / Electrons in the Solar Corona. III: Coronal Streamers Analysis from Balloon-Borne Coronagraph **70**, 3
- DOLLFUS, A., M. LAFFINEUR, and Z. MOURADIAN / Electrons in the Solar Corona. I: Electron Density Models of Streamers at Eclipse 15 February 1961 **37**, 367
- DOMINGO, V. / Introduction **74**, 7
- DOMINGO, V., *see* Sanahuja, B. *et al.*
- DOMKE, H. and J. STAUDE / Non-LTE Line Formation in a Magnetic Field. II: The Influence of Non-Coherent Scattering on Line Contours **31**, 291
- DOMKE, H. and J. STAUDE / Non-LTE Line Formation in a Magnetic Field. I: Non-Coherent Scattering and True Absorption **31**, 279
- DONATI-FALCHI, A., *see* Caccin, B. *et al.*
- DONATI-FALCHI, A., *see* Caccin, B. *et al.*
- DONATI-FALCHI, A., *see* Caccin, B. *et al.*
- DONATI-FALCHI, A., *see* Caccin, B. *et al.*
- DONATI-FALCHI, A., *see* Caccin, B. *et al.*
- DONATI-FALCHI, A., *see* Caccin, B. *et al.*
- DONN, B., *see* Burlaga, L. F. *et al.*
- DONNELLY, I. J., *see* Cramer, N. F.
- DONNELLY, R. F. / The X-Ray and Extreme Ultraviolet Radiation of the August 28, 1966 Proton Flare as Deduced from Sudden Ionospheric Disturbance Data **5**, 123
- DONNELLY, R. F. / Extreme Ultraviolet Flashes of Solar Flares Observed via Sudden Frequency Deviations: Experimental Results **20**, 188
- DONNELLY, R. F. and L. A. HALL / Extreme Ultraviolet Spectrum of the Solar Flare of 2114 UT March 27, 1967 **31**, 411
- DONNELLY, R. F., A. T. WOOD, Jr., and R. W. NOYES / The Extreme Ultraviolet Emissions of Solar Flares: a Comparison between OSO-6 Spectroheliograph Observations and SFD's **29**, 107
- DONNELLY, R. F., *see* Emslie, A. G. *et al.*
- DONNELLY, R. F., *see* McIntosh, P. S.
- DORLING, E. B., *see* Glencross, W. M. *et al.*
- DOS SANTOS, P. M., *see* Kaufmann, P. *et al.*
- DOS SANTOS, P. M., *see* Matsuura, O. T.
- DOSCHEK, G. A. / Solar Instruments aboard the P78-1 Satellite **86**, 9
- DOSCHEK, G. A. / Solar Flare X-Ray Spectra from the P78-1 Spacecraft **86**, 49
- DOSCHEK, G. A. and J. F. MEEKINS / The Helium-Like Calcium, Silicon, and Sulfur Lines during the Decay of a Large Flare **13**, 220
- DOSCHEK, G. A. and J. F. MEEKINS / Note on Helium-like Silicon and Sulfur Lines Observed in the X-Ray Spectra of Solar Flares **28**, 517 (Research Note - Erratum)
- DOSCHEK, G. A., J. F. MEEKINS, and R. DOUGLAS COWAN / Spectra of Solar Flares from 8.5 Å to 16 Å **29**, 125
- DOSCHEK, G. A., *see* Kahler, S. W. *et al.*
- DOSCHEK, G. A., *see* Meekins, J. F.
- DOSCHEK, G. A., *see* Meekins, J. F. *et al.*
- DOWDY, J. F., JR., R. L. MOORE, and S. T. WU / Inhibition of Conductive Heat Flow by Magnetic Construction in the Corona and Transition Region: Dependence on the Shape of the Constriction **99**, 79
- DOYLE, J. G. / A Line Identification List for the Solar Flare of 7 September, 1973 in the Wavelength Range 1335 Å-380 Å **89**, 115
- DOYLE, J. G. and J. C. RAYMOND / Flare Parameters for the 7 September, 1973 Two-Ribbon Flare **90**, 97
- DOYLE, J. G., P. B. BYRNE, B. R. DENNIS, A. G. EMSLIE, A. I. POLAND, and G. M. SIMNETT / Energetics of a Double Flare on November 8, 1980 **98**, 141
- DOYLE, J. G., P. L. DUFTON, F. P. KEENAN, and A. E. KINGSTON / Line Ratios for Solar Ultraviolet Lines of Ov **89**, 243
- DOYLE, J. G., *see* Antonucci, E. *et al.*
- DOYLE, J. G., *see* Keenan, F. P. *et al.*
- DOYLE, J. G., *see* Kingston, A. E. *et al.*
- DRAKE, J. F. / Characteristics of Soft Solar X-Ray Bursts **16**, 152
- DRAKE, Jerry F., Sr., Jean GIBSON, O.S.B., and James A. VAN ALLEN / Iowa Catalog of Solar X-Ray Flux (2-12 Å) **10**, 433
- DRAVINS, D. / Magnetic Field and Electric Current Structure in the Chromosphere **37**, 323
- DRAVINS, D. / Horizontal Velocities in the Solar Photosphere **40**, 53
- DRAVINS, D., *see* Stenflo, J. O. *et al.*
- DROBYSHEVSKI, E. M. / Outward Transport of Angular Momentum by Gas Convection and the Equatorial Acceleration of the Sun **51**, 473
- DRUZHININ, I. P., *see* Kukushkina, V. P.
- DRYER, Murray and Gary R. HECKMAN / Application of the Hypersonic Analog to the Standing Shock of Mars **2**, 112

- DRYER, M. and M. A. SHEA / Cooperation with the SCOSTEP Project: Study of Travelling Inter-Planetary Phenomena (STIP) **47**, 413
- DRYER, M., *see* Harrison, R. A. *et al.*
- DRYER, M., *see* Maxwell, A.
- DRYER, M., *see* Maxwell, A. *et al.*
- DRYER, M., *see* Wagner, W. J. *et al.*
- DRYER, M., *see* Wu, S. T. *et al.*
- DRYER, M., *see* Wu, S. T. *et al.*
- DRYER, M., *see* Wu, S. T. *et al.*
- DRYER, M., *see* Wu, S. T. *et al.*
- DRYER, M., *see* Yeh, T.
- DUBOV, H. W. *et al.*
- DUBOV, E. E. / A Model of the Chromosphere and Transition Zone-Radio and UV Emission of These Layers **18**, 43
- DUFTON, P. L., *see* Doyle, J. G. *et al.*
- DUFTON, P. L., *see* Keenan, F. P. *et al.*
- DUFTON, P. L., *see* Kingston, A. E. *et al.*
- DUGGAL, S. P. and M. A. POMERANTZ / Sectorial Anisotropy of Solar Cosmic Rays **27**, 227
- DUGGAL, S. P., I. GUIDI, and M. A. POMERANTZ / The Unusual Anisotropic Solar Particle Event of November 18, 1968 **19**, 234
- DUGGAL, S. P., *see* Baird, G. A.
- DUGGAL, S. P., *see* Forbush, S. E. *et al.*
- DUIJVENAN, A. / Heat Balance for the High-Temperature Component of a Solar Flare **84**, 189
- DUIJVENAN, A. and P. HOYNG / Imaging of Impulsive Solar Flare Phenomena **86**, 279
- DUIJVENAN, A., P. HOYNG, and M. E. MACHADO / X-Ray Imaging of Three Flares during the Impulsive Phase **81**, 137
- DUIJVENAN, A., B. V. SOMOV, and A. R. SPEKTOR / Evolution of a Flaring Loop after Injection of Energetic Electrons **88**, 257
- DUIJVENAN, A., *see* Machado, M. E. *et al.*
- DULK, G. A. / The Gyro-Synchrotron Radiation from Moving Type IV Sources in the Solar Corona **32**, 491
- DULK, G. A. and D. J. MCLEAN / Coronal Magnetic Fields **57**, 279
- DULK, G. A. and M. D. ALTSCHULER / A Moving Type IV Radio Burst and Its Relation to the Coronal Magnetic Field **20**, 438
- DULK, G. A. and K. V. SHERIDAN / The Structure of the Middle Corona from Observations at 80 and 160 MHz **36**, 191
- DULK, G. A., K. V. SHERIDAN, S. F. SMERD, and G. L. WITHBROE / Radio and EUV Observations of a Coronal Hole **52**, 349
- DULK, G. A., T. S. BASTIAN, and G. J. HURFORD / Dual Frequency Observations of Flares with the VLA **86**, 219
- DULK, G. A., S. F. SMERD, R. M. MACQUEEN, J. T. GOSLING, A. MAGUN, R. T. STEWART, K. V. SHERIDAN, R. D. ROBINSON, and S. JACQUES / White Light and Radio Studies of the Coronal Transient of 14–15 September 1973. I: Material Motions and Magnetic Field **49**, 369
- DULK, G. A., *see* Smerd, S. F.
- DUMAS, G., C. CAROUBALOS, and J.-L. BOUGERET / The Digital Multi-Channel Radio-spectrograph in Nançay **81**, 383
- DUMONT, S., Z. MOURADIAN, and J.-C. PECKER / Structure and Physics of Solar Faculae. I: Principles and Observational Procedures from Ground-Based Instruments and OSO-8 Satellite **78**, 71
- DUMONT, S., Z. MOURADIAN, J.-C. PECKER, J.-C. VIAL, and E. CHIPMAN / Structure and Physics of Solar Faculae. III: The Densities in the Chromosphere-Corona Transition Zone **83**, 27
- DUMONT, S., A. OMONT, and J.-C. PECKER / Theoretical Study of the Fraunhofer Lines Polarization: The Case of Ca I 4227 **28**, 271
- DUMONT, S., *see* Fang, C. *et al.*
- DUMONT, S., *see* Mouradian, Z. *et al.*
- DUNCAN, R. A. / Wave Ducting of Solar Metre-Wave Radio Emissions as an Explanation of Fundamental/Harmonic Source Coincidence and Other Anomalies **63**, 389
- DUNCAN, R. A. / Langmuir-Wave Conversion as the Explanation of Moving Type IV Solar Metre-Wave Radio Outbursts **73**, 191
- DUNCAN, R. A. / Dynamic Behaviour of the K-Corona above a Type I Radio Source **89**, 63
- DUNCAN, R. A. / The Relation between Brightness Fluctuations and Polarization of Solar Metre-Wave Emission **92**, 363
- DUNCAN, R. A. / Rapid Fluctuations in the Position, Size, and Brightness of Intense Solar Metre-Wave Radio Sources **97**, 173
- DUNCAN, R. A., *see* Loughhead, R. E. *et al.*
- DUNCKEL, N. / Kilometric Type III Burst Enhancements Associated with Interplanetary Shocks **46**, 461
- DUNCKEL, N., R. A. HELLIWELL, and J. VESECKY / Type III Solar Noise Observed below 100 kHz on OGO 3. I: Description of Events **25**, 197
- DUNCOMBE, J. S., *see* Duncombe, R. L. *et al.*
- DUNCOMBE, R. L., R. F. HAUPT, and J. S. DUNCOMBE / The Use of Solar Eclipse Timings to Compare the Reference Systems of Newcomb's Tables of the Sun and of the Improved Lunar Ephemeris **21**, 259
- DUNN, A. R. / Calculation of 5250.216 Å Line Profiles in Sunspots **26**, 83
- DUNN, A. R. and E. C. OLSON / Determination of

- Solar Doppler Widths by Goldberg's Method **16**, 272
- DUNN, R. B. / High Resolution Solar Telescopes **100**, 1 (*Invited Review*)
- DUNN, R. B. and J. B. ZIRKER / The Solar Filigree **33**, 281
- DUNN, R. B., *see* Lynch, D. K. *et al.*
- DUPRAT, G., *see* Hurley, K.
- DUPREE, Andrea K. and Leo GOLDBERG / Solar Abundance Determination from Ultraviolet Emission Lines **1**, 229
- DUPREE, A. K. and W. HENZE, Jr. / Solar Rotation as Determined from OSO-4 EUV Spectroheliograms **27**, 271
- DUPREE, A. K., *see* Henze, W., Jr.
- DUPREE, A. K., *see* Munro, R. H. *et al.*
- DUPREE, A. K., *see* Withbroe, G. L. *et al.*
- DUPREE, A. K., *see* Wood, A. T. *et al.*
- DUPREE, R. G., *see* Newkirk, Jr., G. *et al.*
- DURGAPRASAD, N., *see* Biswas, S. *et al.*
- DURNEY, B. / On the Sun's Differential Rotation and Pole-Equator Temperature Difference **26**, 3
- DURNEY, B. R. / Solar-Wind Properties at the Earth as Predicted by the Two-Fluid Model **30**, 223
- DURNEY, B. R. / On the Sun's Differential Rotation. Implications of the Difference in Angular Velocity between the Sunspots and Photosphere **38**, 301
- DURNEY, B. R. / On Coronal Streamers with T-Type Neutral Points **41**, 233
- DURNEY, B. R. and G. W. PNEUMAN / Solar-Interplanetary Modeling: 3-D Solar Wind Solutions in Prescribed Non-Radial Magnetic Field Geometries **40**, 461
- DURNEY, B. R. and I. W. ROXBURGH / Inhomogeneous Convection and the Equatorial Acceleration of the Sun **16**, 3
- DURNEY, B. R. and N. E. WERNER / On the Solar Oblateness: the Combined Effect of a Pole-Equator Difference in Effective Temperature and Mechanical Heating **21**, 12
- DURRANT, C. J. / Spectroscopic Investigation of the Chromosphere. IV: a Reassessment of the Cloud Model **44**, 41
- DURRANT, C. J. and A. G. MICHALITSANOS / Shock Wave Dissipation in Magnetically Active Regions **18**, 60 (*Research Note*)
- DURRANT, C. J., W. MATTIG, A. NESIS, G. REISS, and W. SCHMIDT / Studies of Granular Velocities. VIII: The Height Dependence of the Vertical Granular Velocity Component **61**, 251
- DURRANT, C. J., *see* Cram, L. E. *et al.*
- DÜRST, J. / Observations of Coronal Polarization at the Solar Eclipse of 7 March, 1970 **50**, 457
- D'USTON, C., J. M. BOSQUED, F. CAMBOU, V. V. TEMNY, G. N. ZASTENKER, O. L. VAISBERG and E. G. EROSHENKO / Energetic Properties of Interplanetary Plasma at the Earth's Orbit Following the August 4, 1972 Flare **51**, 217
- D'USTON, C., *see* Bosqued, J. M. *et al.*
- DUVALL, T. L., JR., J. M. WILCOX, L. SVALGAARD and P. H. SCHERRER, and P. S. MCINTOSH / Comparison of H α Synoptic Charts with the Large-Scale Solar Magnetic Field as Observed at Stanford **55**, 63
- DUVALL, T. L., JR. and L. SVALGAARD / On the Supposed Anticorrelation of Solar Polar and Equatorial Rotation Rates **56**, 463 (*Research Note*)
- DUVALL, T. L., JR. / Large-Scale Solar Velocity Fields **63**, 3
- DUVALL, T. L., JR. / The Equatorial Rotation Rates of the Supergranulation Cells **66**, 213
- DUVALL, T. L., JR. / The Equatorial Photospheric Rotation Rate **76**, 137
- DUVALL, T. L., JR., PH. H. SCHERRER, L. SVALGAARD, and J. M. WILCOX / Average Photospheric Poloidal and Toroidal Magnetic Field Components near Solar Minimum **61**, 233
- DUVALL, T. L., JR., *see* Foukal, P.
- DUVALL, T., JR., *see* Fowler, L. A. *et al.*
- DUVALL, T. L., *see* Heath, D. F. *et al.*
- DUVALL, T. L., JR., *see* Livingston, W.
- DUVALL, T. L., JR., *see* Rhodes, E. J., Jr. *et al.*
- DUVALL, T. L., *see* Scherrer, P. H. *et al.*
- DUVALL, T. L., *see* Svalgaard, L. *et al.*
- DUVALL, T. L., JR., *see* Svalgaard, L. *et al.*
- DWARKANATH, K. S., *see* Sastry, Ch. V. *et al.*
- DWIVEDI, B. N. and P. K. RAJU / Density Dependence of Solar Emission Lines of Boron-Like Ions **68**, 111
- DWIVEDI, B. N., H. S. HUDSON, S. R. KANE, and Z. ŠVESTKA / H α and Hard X-Ray Development in Two-Ribbon Flares **90**, 331
- DWIVEDI, B. N., *see* Hudson, H. S.
- DWIVEDI, B. N., *see* Raju, P. K.
- DYATEL, N. P., *see* Livshits, M. A. *et al.*
- DYER, C. S., A. R. ENGEL, J. J. QUENBY, and S. WEBB / Observation and Explanation of a 0.3% Sunward Radial Streaming of 1 to 5 GV Cosmic Radiation **39**, 243
- DZIEMBOWSKI, W. / Resonant Coupling between Solar Gravity Modes **82**, 259 (*Invited Review*)
- DZUBENKO, N. J., *see* Koutchmy, S. *et al.*
- EADON, E. J. and D. E. BILLING / Area Variation with Temperature of Supergranule Network Features in the Solar Transition Zone **58**, 31
- EBEL, A. and B. SCHWISTER / The Sun's Rotation and Perturbations of Geopotential Height and

- Temperature Fields in the Stratosphere **74**, 385
- DEBERG, S. J., *see* Howard, R.
- EDDY, J. A. / An Early Observation of $\lambda 8542$ of the Ca II Infrared Triplet **29**, 23 (*Research Note*)
- EDDY, J. A. / Observation of a Possible Neutral Sheet in the Corona **30**, 385
- EDDY, J. A. / The Maunder Minimum: a Reappraisal **89**, 195
- EDDY, J. A., P. A. GILMAN, and D. E. TROTTER / Solar Rotation during the Maunder Minimum **46**, 3
- EDDY, J. A., ROBERT H. LEE, and JAMES P. EMERSON / The $\lambda 10747$ Coronal Line at the 1966 Eclipse. I: Emission Line Polarization **30**, 351
- EDDY, John A., Pierre J. LÉNA and Robert M. MACQUEEN / Far Infrared Measurement of the Solar Minimum Temperature **10**, 330
- EDELSON, S., *see* Shimabukuro, F. I. *et al.*
- EDLÉN, B. / On the Identification of ArX and ArXIV in the Solar Corona and the Origin of the Unidentified Coronal Lines **9**, 439
- EDLÉN, B. / Z-Dependence of the Level Intervals in $2s^22p^2$, $2s^22p^3$ and $2s^22p^4$ **24**, 356
- EDLÉN, B. and R. SMITT / The Forbidden Transitions with $3s^23p^53d$ of FeIX and NiXI and $3s^23p^43d$ of FeX and NiXII **57**, 329
- EDLÉN, B., H. P. PALENIUS, K. BOCKASTEN, R. HALLINI and J. BROMANDER / Spin-Forbidden Resonance Multiplets in Light Elements **9**, 432
- EDLÉN, B., *see* Svensson, L. Å. *et al.*
- EDMONDS, Jr., Frank N. / Amplitude Distributions of Solar Photospheric Fluctuations **1**, 5
- EDMONDS, F. N., Jr. / Spectral Analysis of Solar Photospheric Fluctuations. II: Profile Fluctuations in the Wings of the $\lambda 5183.6$ Mg I b_1 Line **23**, 47
- EDMONDS, F. N., Jr. / Convective Flux in the Solar Photosphere as Determined from Fluctuations **38**, 33
- EDMONDS, F. N., JR. / Spectral Analysis of Solar Photospheric Fluctuations. IV: The Low-Wavenumber Power of Granulation Brightness Fluctuations **44**, 293
- EDMONDS, F. N., JR. and K. H. HINKLE / Spectral Analyses of Solar Photospheric Fluctuations. V: A Two-Dimensional Analysis of Granulation at the Center of the Disk **51**, 273
- EDMONDS, F. N., JR. and J.-C. HSU / A Statistical Analysis of Na I D₁ Profile Fluctuations at the Center of the Solar Disk. I: Data Reduction and Resolvable Velocities **83**, 217
- EDMONDS, F. N., Jr. and C. J. WEBB / Spectral Analysis of Solar Photospheric Fluctuations. I: Power, Coherence and Phase Spectra Calculated by East-Fourier-Transform Techniques **22**, 276
- EDMONDS, Jr., F. N. and C. J. WEBB / Spectral Analyses of Solar Photospheric Fluctuations. III: Bi-Dimensional Power, Coherence and Phase Spectra of Deep-Seated Radial Velocity and Photometric Fluctuations **25**, 44
- EDWIN, P. M. and B. ROBERTS / Wave Propagation in a Magnetically Structured Atmosphere. III: The Slab in a Magnetic Environment **76**, 239
- EDWIN, P. M. and B. ROBERTS / Wave Propagation in a Magnetic Cylinder **88**, 179
- EFANOV, V. A., A. G. KISLYAKOV and I. G. MOISEEV / Slowly Varying Component Spectrum of the Solar Radio Emission at Millimetre Wavelengths **24**, 142
- EFANOV, V. A., A. G. KISLYAKOV, I. G. MOISEEV, and A. I. NAUMOV / Observation of Solar Radio Emission by the 22-m Radio Telescope at the Crimean Astrophysical Observatory at 2.25 mm and 8.15 mm Wavelengths **8**, 331
- EFANOV, V. A., *see* Kotov, V. A. *et al.*
- EFENDIEVA, S. A., *see* Teplitskaja, R. B.
- EFENDIEVA, S. A., *see* Teplitskaja, R. B.
- EGAN, Th. F. and T. J. SCHNEEBERGER / Observations of Coronal Oscillations above an Active Region **64**, 223
- EGIDI, A. and C. SIGNORINI / Solar Wind Direction from Heos I and Explorer 33 Satellites **34**, 247
- EINAUDI, G. and G. VAN HOVEN / The Stability of Coronal Loops: Finite-Length and Pressure-Profile Limits **88**, 163
- EINAUDI, G., G. TORRICELLI-CIAMPONI, and C. CHIUDERI / Magnetic Fields and Thermal Structure of Solar Plasmas **92**, 99
- EINAUDI, G., *see* Batistoni, P. *et al.*
- EINAUDI, G., *see* Chiuderi, C.
- EINIGHAMMER, H. J., *see* Bräuniger, H. *et al.*
- EINIGHAMMER, H. J., *see* Krämer, G. *et al.*
- EISENSTEIN, J. P., *see* Snider, J. L. *et al.*
- EISLER, Thomas J. / Convergent Solutions of the Inviscid Solar Wind Equations **7**, 46
- EISLER, Thomas J. / Asymptotic Solutions of the Viscous Solar Wind Equations **7**, 49
- EKBERG, J. O., *see* Svensson, L. A. *et al.*
- EKELAND, A. and Ø. HAUGE / Isotopes of Samarium in the Sun **42**, 17
- EKMANN, G. / The Relation between the Intensities of Umbra and Penumbra of Large Sunspots **38**, 73 (*Research Note*)
- EKMANN, G. and P. MALTBY / Umbral Intensities of Large Sunspots **35**, 317

- ELCAN, M. J., *see* Datlowe, D. W. *et al.*
- EL MEKKI, O. M. / Hydromagnetic Planetary Waves in Vertically Sheared Zonal Flow and Transverse Magnetic Field **68**, 3
- EL MEKKI, O. M. / Internal Atmospheric Hydromagnetic Planetary-Gravity Waves in Zonal Wind Magnetic Shears **75**, 351
- EL MEKKI, O. M. / The Instability of Hydromagnetic Planetary-Gravity Waves in a Zonal Flow and Transverse Magnetic Field **85**, 83
- EL MEKKI, O. M. / Over-Reflection of Hydromagnetic Planetary-Gravity Waves at the Solar Helmet Streamers and Magnetic Sectors **96**, 397
- EL MEKKI, O., I. A. ELTAYEB, and J. F. MCKENZIE / Hydromagnetic-Gravity Wave Critical Levels in the Solar Atmosphere **57**, 261
- ELGARØY, Ø. and O. P. SVEEN / Two Types of Extremely Short Lasting Decimetric Bursts and Their Possible Relation to Processes in Solar Magnetic Traps **32**, 231
- ELGARØY, Ø., *see* Mercier, C. *et al.*
- ELLING, W. and H. SCHWENTEK / Similar Periodicities in the Range 12 to 150 Days in Solar, Ionospheric, and Atmospheric Time Series **74**, 373
- ELLING, W., *see* Schwentek, H.
- ELLING, W., *see* Schwentek, H.
- ELLING, W., *see* Schwentek, H.
- ELLIOTT, Ian / Power Spectra of H α Doppler Shifts **6**, 28
- ELLIS, G. R. A., *see* McConnell, D.
- ELLIS, R. S. / The Solar Abundance of Titanium **50**, 261 (*Research Note*)
- ELMORE, D. E., *see* Baur, T. G. *et al.*
- EL-RAEY, M. / Eclipse Measurements near 1.2 cm Wavelength on September 11, 1969 **16**, 404
- EL-RAEY, M. and R. AMER / Variation of the Solar Atmospheric Rotation over the 11 Year Cycle **45**, 533
- EL-RAEY, M. and P. H. SCHERRER / Differential Rotation in the Solar Atmosphere Inferred from Optical, Radio, and Interplanetary Data **26**, 15
- EL-RAEY, M. and Ph. SCHERRER / Correlation and Spectral Analysis of Daily Solar Radio Flux **30**, 149
- EL-RAEY, M., *see* Scherrer, P. H.
- ELSTE, Günther / Comments on the Bilderberg Continuum Atmosphere **3**, 106
- ELSTE, G. H. and R. G. TESKE / Photospheric Network from Study of Manganese Lines **59**, 275
- ELSTE, G. H. / On the Sun's Limb Brightening in the Visible **93**, 15
- ELSTE, G. H., *see* Nauer, D. J. *et al.*
- ELSTE, G. H., *see* Teske, R. G.
- ELTAYEB, I. A., *see* El Mekki, O. *et al.*
- ELWERT, G. and E. HAUG / Anisotropy of Solar Hard X-Radiation during
- ELWERT, G. and E. HAUG / On the Polarization and Anisotropy of Solar X-Radiation during Flares **15**, 234
- ELWERT, G. and E. HAUG / Anisotropy of Solar Hard X-Radiation during Flares **20**, 413
- ELWERT, G. and E. HAUG / Reply to Discussion by Kahler *et al.* **20**, 425 (*Research Note*)
- ELWERT, G. and P. K. RAJU / Temperature Structure and Conductive Flux in the Chromosphere Corona Transition Region **25**, 319
- ELWERT, G. and R. R. RAUSARIA / Scattering of Fast Flare Electrons in Solar Atmosphere and Their X-Ray Spectrum **57**, 409
- ELWERT, G., K. MÜLLER, L. THÜR, and P. BALZ / Computation of Inner Coronal Magnetic Fields from Longitudinal Field Components on a Spherical Photosphere **75**, 205
- ELWERT, G., *see* Haug, E.
- ELWERT, G., *see* Krämer, G. *et al.*
- ELWERT, G., *see* Maute, K.
- ELWERT, G., *see* Maute, K.
- ELZNER, L. R. / The Influence of Shock-Waves on UV-Emission-Lines **45**, 93
- EMERSON, D. and E. A. MALLIA / Forbidden Lines of Fe II in the Photospheric Spectrum **5**, 303
- EMERSON, D., *see* Petford, A. D. *et al.*
- EMERSON, J. P., *see* Eddy, J. A. *et al.*
- EMSLIE, A. G. / Chromospheric Heating by Electron and Proton Bombardment in the Solar Flare of June 7, 1980 **84**, 263
- EMSLIE, A. G. / Energetic Electrons as an Energy Transport Mechanism in Solar Flares **86**, 133
- EMSLIE, A. G. / The Structure of High-Temperature Solar Flare Plasma in Non-Thermal Flare Models **98**, 281
- EMSLIE, A. G. and D. M. RUST / Energy Release in Solar Flares **65**, 271
- EMSLIE, A. G. and M. E. MACHADO / The Heating of the Temperature Minimum Region in Solar Flares - a Reassessment **64**, 129
- EMSLIE, A. G. and P. A. STURROCK / Temperature Minimum Heating in Solar Flares by Resistive Dissipation of Alfvén Waves **80**, 99
- EMSLIE, A. G. and R. W. NOYES / The Characteristics of Impulsive Solar EUV Bursts **57**, 373
- EMSLIE, A. G., J. C. BROWN, and R. F. DONNELLY / The Inter-Relationship of Hard X-Ray and EUV Bursts during Solar Flares **57**, 175
- EMSLIE, A. G., M. G. McCAIG, and J. C. BROWN / Application of the Trap-Plus-Precipitation

- Hard X-Ray Burst Model to the Flare of August 4, 1972 **63**, 175
- EMSLIE, A. G., *see* Doyle, J. G. *et al.*
- EMSLIE, A. G., *see* Kiplinger, A. L. *et al.*
- EMSLIE, A. G., *see* Leach, J. *et al.*
- EMSLIE, A. G., *see* Machado, M. E. *et al.*
- ENGEL, A. R., *see* Dyer, C. S. *et al.*
- ENGSTROM, S. F. T., *see* Boland, B. C. *et al.*
- ENGVOLD, O. / On the K Line of Ca II in Sunspots **2**, 234 (*Research Note*)
- ENGVOLD, Oddbjörn / On the Position of Sunspots in the Core of H α Relative to the Continuum **8**, 284
- ENGVOLD, O. / The Diatomic Molecules BH, BN, and BO in Sunspots and the Solar Abundance of Boron **11**, 183
- ENGVOLD, O. / The Internal Motion of Quiescent Prominences **23**, 346
- ENGVOLD, O. / The Fine Structure of Prominences. I: Observations – H α Filtergrams **49**, 283
- ENGVOLD, O. / The Fine Structure of Prominences. IV: Spectral Observations **56**, 87
- ENGVOLD, O. / Thermodynamic Models and Fine Structure of Prominences **67**, 351
- ENGVOLD, O. / The Small Scale Velocity Field of a Quiescent Prominence **70**, 315
- ENGVOLD, O. and H. D. HALVORSEN / New Identifications of Disk Emission Lines in the Ca II H and K Line Wings **28**, 23 (*Research Note*)
- ENGVOLD, O. and E. JENSEN / On Pikel'ner's Theory of Prominences **52**, 37 (*Research Note*)
- ENGVOLD, O. and W. LIVINGSTON / High Dispersion Spectroscopic Studies of Quiescent Prominences **20**, 375
- ENGVOLD, O. and J. McK. MALVILLE / The Fine Structure of Prominences. III: Small-Scale Doppler-Shifted Features **52**, 369
- ENGVOLD, O. and B. M. RUSTAD / An Eruptive Prominence of June 10, 1973 **35**, 409
- ENGVOLD, O., E. JENSEN, and B. N. ANDERSEN / Kinematics of a Loop Prominence **62**, 331
- ENGVOLD, O., J. McK. MALVILLE, and B. M. RUSTAD / The Eruptive Prominence of June 8, 1974 **48**, 137
- ENGVOLD, O., J. McK. MALVILLE, and W. LIVINGSTON / The Fine Structure of Prominences. V: Active Edges of Quiescent Prominences **60**, 57
- ENGVOLD, O., E. TANDBERG-HANSSSEN, and E. REICHMANN / Evidence for Systematic Flows in the Transition Region around Prominences **96**, 35
- ENGVOLD, O., *see* Heasley, J. N. *et al.*
- ENGVOLD, O., *see* Jockers, K.
- ENGVOLD, O., *see* Kjeldseth Moe, O. *et al.*
- ENGVOLD, O., *see* Maltby, P.
- ENGVOLD, O., *see* Sheeley, Jr., N. R.
- ENOMÉ, S. / Narrow-Band Decimeter Bursts and X-Ray Emissions – Possible Evidence of Negative Absorption or Maser Effect **86**, 421
- ÉNOMÉ, Shinzo, Takakiyo KAKINUMA, and Haruo TANAKA / High-Resolution Observations of Solar Radio Bursts with Multi-Element Compound Interferometers at 3.75 and 9.4 GHz **6**, 428
- ENOMÉ, S., *see* Takakura, T. *et al.*
- ÉNOMÉ, S., *see* Tanaka, H.
- ÉNOMÉ, S., *see* Tanaka, H.
- ERICKSON, W. C., T. E. GERGELY, M. R. KUNDU, and M. J. MAHONEY / Determination of the Decimeter Wavelength Spectrum of the Quiet Sun **54**, 57
- ERICKSON, W. C., *see* Gergely, T. E.
- ERICKSON, W. C., *see* Kundu, M. R.
- ERICKSON, W. C., *see* Kundu, M. R. *et al.*
- ERICKSON, W. C., *see* Kundu, M. R. *et al.*
- ERICKSON, W. C., *see* Kundu, M. R. *et al.*
- ERIKSEN, G., *see* Maltby, P.
- EROSHENKO, E. G., *see* D'Uston, C. *et al.*
- ERSKINE, F. T. and M. R. KUNDU / Time Variability and Structure of Quiet Sun Sources at 6 cm Wavelength **76**, 221
- ERSKINE, III, F. T., *see* Gergely, T. E. *et al.*
- ESTULINE, I. V., *see* Chambon, G. *et al.*
- ESTULINE, I. V., *see* Hurley, K. *et al.*
- EVANS, C. D. / A Search for the K-Line of Ca II during the Eclipse of 7 March, 1970 **14**, 157 (*Research Note*)
- EVANS, C. D., *see* Wilson, P. R.
- EVANS, D. R., *see* Brown, G. M.
- EVANS, D. R., *see* Brown, G. M.
- EVANS, J. C. and L. TESTERMAN / The Ability of Current Micro-Velocity Models to Represent Center-Limb Line Profiles **45**, 41
- EVANS, John W. / Sacramento Peak Observatory **1**, 157 (*Report from Solar Institute*)
- EVANS, John W. / Color in Solar Granulation **3**, 344 (*Research Note*)
- EVANS, J. W. and C. P. CATALANO / Observed Oddities in the Lines H, K, b and H β **27**, 299
- EVANS, K. D., J. P. PYE, R. J. HUTCHEON, M. GERASSIMENKO, A. S. KRIEGER, J. M. DAVIS, and J. F. VESECKY / The Gross Energy Balance of Solar Active Regions **55**, 387
- EVANS, K., *see* Batstone, R. M. *et al.*
- EVANS, K. D., *see* Hutcheon, R. J. *et al.*
- EVANS, L. G., J. FAINBERG, and R. G. STONE / A Comparison of Type III Solar Radio Burst Theories Using Satellite Radio Observations

- and Particle Measurements **21**, 198
- EVANS, L. G., J. FAINBERG, and R. G. STONE / Characteristics of Type III Exciters Derived from Low Frequency Radio Observations **31**, 501
- EVANS, L. G., *see* Fitzenreiter, R. J. *et al.*
- EVANS, W. D., *see* Argo, H. V.
- EVDOKIMOVA, L. V., *see* Ivanov, K. G. *et al.*
- EYLES, C. J., A. D. LINNEY, and G. K. ROCHESTER / A Search for Neutrons of Solar Origin Using Balloon-Borne Detectors 1967-69 **24**, 483
- FAENOV, A. YA., *see* Aglizki, E. V. *et al.*
- FAHR, H. J. / Non-Thermal Solar Wind Heating by Supra-Thermal Ions **30**, 193
- FAINBERG, J. and R. G. STONE / Type III Solar Radio Burst Storms Observed at Low Frequencies. I: Storm Morphology **15**, 222
- FAINBERG, J. and R. G. STONE / Type III Solar Radio Burst Storms Observed at Low Frequencies. II: Average Exciter Speed **15**, 433
- FAINBERG, J. and R. G. STONE / Type III Solar Radio Burst Storms Observed at Low Frequencies. III: Streamer Densities, Inhomogeneities, and Solar Wind Speed **17**, 392
- FAINBERG, J., *see* Cane, H. V. *et al.*
- FAINBERG, J., *see* Evans, L. G. *et al.*
- FAINBERG, J., *see* Evans, L. G. *et al.*
- FAINBERG, J., *see* Fitzenreiter, R. J. *et al.*
- FAINBERG, J., *see* Kundu, M. R. *et al.*
- FAINBERG, J., *see* Mosier, S. R.
- FAINBERG, J., *see* Stone, R. G.
- FAINBERG, J., *see* Stone, R. G.
- FAINBERG, J., *see* Weber, R. R. *et al.*
- FAINSHTEIN, S. M., *see* Fomichev, V. V.
- FAIRFIELD, D. H., *see* Allum, F. R. *et al.*
- FALCHI, A. D., M. FELLI, and G. TOFANI / One-Dimensional Aperture Synthesis Observations at 2.8 cm of the Brightness Distribution over the Solar Equator **48**, 59
- FALCHI, A. D., M. FELLI, P. PAMPALONI, and G. TOFANI / The Development and Structure of Bright Active Regions at 2.8 cm **56**, 335
- FALCIANI, R. / Photometric Studies of the Starting Phase of Flares **53**, 287
- FALCIANI, R. and M. RIGUTTI / Analysis of Some Aspects of 25 Chromospheric Events. II: Discussion on the Optical Data **26**, 114
- FALCIANI, R. and M. RIGUTTI / Some Notes on Flare Patrol **28**, 539
- FALCIANI, R., M. GIORDANO, M. RIGUTTI, and G. ROBERTI / Comparison between Some H α and X-Ray Flares **54**, 169
- FALCIANI, R., M. RIGUTTI, and C. J. MACRIS / Analysis of Some Aspects of 25 Chromospheric Events. I: Reduction of the Optical Data **26**, 108
- FALCIANI, R., M. RIGUTTI, and G. ROBERTI / Temperature Variations in the Solar Photosphere. II: A Search for Equator-to-Pole Differences in Photospheric Temperature **35**, 277
- FALCIANI, R., *see* Azzarelli, L. *et al.*
- FALCIANI, R., *see* Caccin, B. *et al.*
- FALCIANI, R., *see* Caccin, B. *et al.*
- FALCIANI, R., *see* Caccin, B. *et al.*
- FALCIANI, R., *see* Caccin, B. *et al.*
- FALCIANI, R., *see* Chiuderi-Drago, F. *et al.*
- FALLER, James E., *see* Hiei, Eijiro
- FANFONI, G., *see* Bavassano, B. *et al.*
- FANG, C., Z. MOURADIAN, G. BANOS, S. DUMONT, and J. C. PECKER / Structure and Physics of Solar Faculae. IV: Chromospheric Granular Structure **91**, 61
- FÁRNÍK, F., J. KAASTRA, B. KÁLMÁN, M. KARLICKÝ, C. SLOTTJE, and B. VALNÍČEK / X-Ray, H α , and Radio Observations of the Two-Ribbon Flare of 16 May, 1981 **89**, 355
- FATIANOV, M. P., *see* Makarov, V. I. *et al.*
- FAWCETT, B. C. and R. D. COWAN / $3p^6 3d^n 3p^5 3d^{n+1}$ Spectra of FeVI and FeVII **31**, 339
- FAY, T. D. and A. A. WYLLER / New C¹³N¹⁴ Search Regions in the Solar Spectrum **11**, 384
- FAY, T. D., A. A. WYLLER, and H. S. YUN / Photoelectric Line Profiles in Umbral Spectra **23**, 58
- FAY, T., J. REMO, and K. CZAJA / On the Minimum Intensity of the Na D₂-5890 Å Line in Sunspot Umbra **26**, 87 (*Research Note*)
- FEDORCHENKO, G. L., *see* Gurtovenko, E. A. *et al.*
- FEDORENKO, L. U., *see* Gurtovenko, E. A.
- FEHLAU, P. E. / Solar X-Ray Observations from Vela Satellites **20**, 228 (*Research Note*)
- FEHLAU, P. E., *see* Milkey, R. W. *et al.*
- FEIBELMAN, W. A. / Visual and Photographic White Light Flare Observations on 4 July 1974 **39**, 409
- FEIT, J. / The Effect of a Bounded Interplanetary Diffusion Medium on the Propagation of Solar Flare Cosmic Rays **17**, 473
- FEIT, J. / The Continuous Emission of Low Energy Cosmic Rays during Solar Flares **29**, 211
- FEITZINGER, J. V., *see* Bräuninger, H. *et al.*
- FEIX, G. / Pencilbeam Observation of Solar Bursts at 36 GHz **9**, 265
- FEIX, G. / The Radio-Emission and Ca-Brightness of two Outstanding Active Regions during Their Lifetime **10**, 184 (*Research Note*)
- FEIX, G. / Sympathetic Radiobursts at mm-Wavelengths **13**, 227
- FELDMAN, W. C., *see* Asbridge, J. R. *et al.*
- FELDMAN, W. C., *see* Bame, S. J. *et al.*
- FELDMAN, W. C., *see* Bame, S. J. *et al.*

- ELDMAN, W. C., *see* Borrini, G. *et al.*
- ELDMAN, W. C., *see* Lemons, D. S. *et al.*
- ELDMAN, W. C., *see* Neugebauer, M. M.
- ELDMAN, W. C., *see* Sheeley, N. R. *et al.*
- ELLI, M. and G. TOFANI / Solar Limb Brightening at 3.1 cm λ **13**, 194
- ELLI, M., P. PAMPALONI, and G. TOFANI / Fine Structure of a Very Bright Active Region at a Wavelength of 2.8 cm **37**, 395
- ELLI, M., R. PALLAVICINI, and G. TOFANI / The Structure and Intensity Evolution of a Solar Burst at 2.8 cm and the Relation with the Soft X-Ray Emitting Region **44**, 135
- ELLI, M., G. POLETO, and G. TOFANI / Magnetic and Microwave Structure in Solar Active Regions **51**, 65
- ELLI, M., G. TOFANI, E. FÜRST, and W. HIRTH / On the Nature of Some Active Regions in the Microwave Range **42**, 377
- ELLI, M., *see* Chiuderi Drago, F.
- ELLI, M., *see* Falchi, A. D. *et al.*
- ENIMORE, E. E., *see* Bame, S. J. *et al.*
- FERGUSON, B. G. / Central Meridian Passage Dates of Coronal Holes, Inferred from East-West Solar Scans at 692 and 1415 MHz, for the Period January 1968–January 1974 **69**, 185
- FEYNMAN, J. / On Solar Wind Helium and Heavy Ion Temperatures **43**, 249
- FISCHTEL, C. E., *see* Bertsch, D. L. *et al.*
- FINCH, M. L., *see* Acton, L. W. *et al.*
- FINK, H. H., *see* Bräuninger, H. *et al.*
- FINK, H. H., *see* Krämer, G. *et al.*
- FINLEY, L. T., *see* Siscoe, G. L.
- FINN, G. D. and J. T. JEFFERIES / Non-LTE Profiles of the Al I Autoionization Lines **34**, 57
- FINN, G. D. and J. T. JEFFERIES / The Polarization of Continuum Radiation in Sunspots. I: Rayleigh and Thomson Scattering **39**, 91
- FINN, G. D. and D. A. LANDMAN / Theoretical Intensity Ratios for Some Fe XIII Lines **30**, 381
- FINN, G. D. and D. A. LANDMAN / Theoretical Intensity Ratios for Some Fe XIII Coronal Lines (*Errata*) **32**, 518 (**30**, 381)
- FINN, G. D. and H. C. MCALLISTER / Observed and Theoretical Profiles of the Si III Lines at λ 1814 **56**, 263
- FINN, G. D., *see* Landman, D. A.
- FIRSTOVA, N. M. / An Evaluation of the Possibility of Studying Flare Plasma Turbulence Using the Satellites of the He I Line Forbidden Components **90**, 269
- FIRSTOVA, N. M., *see* Teplitskaja, R. B.
- FIRTH, J. G., *see* Acton, L. W. *et al.*
- FISCHER, H. J. E. / Test of a Solar Streamline Analysis on Terrestrial Wind Data **20**, 26
- FISHER, R. R. / Green Line Observations of the March 1970 Coronal Enhancements **16**, 111
- FISHER, R. / On the Use of a Solid Fabry–Perot Interferometer for Coronal Photography **18**, 253
- FISHER, R. R. / On the Abundance of Calcium in the Solar Corona **19**, 431
- FISHER, R. R. / Monochromatic Observations of a Coronal Loop **19**, 436
- FISHER, R. R. / On the Distribution of Material as a Function of Temperature in the Post-Flare Loop System of 12 August 1970 **19**, 440
- FISHER, R. R. / Coronagraphic Observations of an Enhanced Coronal Region. II. Temperature and Density Structure through the Enhanced Region **24**, 385
- FISHER, R. R. / The Loop Prominence of 11 August 1972: a Coronal Continuum Event **35**, 401
- FISHER, R. R. / The Fe XIV Brightness Measurements: 30 June 1973 **36**, 343 (*Research Note*)
- FISHER, R. R. / Photoelectric Observations of Fe XIV Coronal Depletion: 20 April 1976 **55**, 135
- FISHER, R. R. / λ 5305 Fe XIV Density Models of the Inner Solar Corona **57**, 119
- FISHER, R. R. and R. C. HILL II / A Method of Differential Field Photometry by Video-Photographic Image Subtraction **18**, 211
- FISHER, R. and T. POPE / Coronagraphic Observations of an Enhanced Coronal Region: I. Fe XV Emission Line Data **20**, 389
- FISHER, R. R., L. B. LACEY, K. A. ROCK, E. A. YASAKAWA, N. R. SHEELEY, JR., D. J. MICHELS, R. A. HOWARD, M. J. KOOMEN, and A. BAGROV / The Solar Corona on 31 July, 1981 **83**, 233
- FISHER, R. R., *see* MacQueen, R. M.
- FISHER, R. R., *see* McCabe, M. K.
- FISK, L. A. and W. I. AXFORD / Anisotropies of Solar Cosmic Rays **7**, 486
- FISK, L. A. and W. I. AXFORD / Radial Gradients and Anisotropies of Cosmic Rays in the Interplanetary Medium **12**, 304
- FISK, L. A. and K. H. SCHATTEN / Transport of Cosmic Rays in the Solar Corona **23**, 204
- FITZENREITER, R. J., L. G. EVANS, and R. P. LIN / Quantitative Comparisons of Type III Radio Burst Intensity and Fast Electron Flux at 1 AU **46**, 437
- FITZENREITER, R. J., J. FAINBERG, and R. B. BUNDY / Directivity of Low Frequency Solar Type III Radio Bursts **46**, 465
- FITZENREITER, R. J., J. FAINBERG, R. R. WEBER, H. ALVAREZ, F. T. HADDOCK, and W. H. POTTER / Radio Observations of Interplanetary Magnetic Field Structures out of the Ecliptic **52**, 477

- FITZENREITER, R. J., *see* Weber, R. R. *et al.*
- FLAA, T., *see* Osherovich, V.
- FLAGG, R. S., *see* Barrow, C. H. *et al.*
- FLETT, A. M., P. R. FOSTER, P. STRACHAN, and D. C. THORNTON / Observations of a Partial Solar Eclipse at 9 mm Wavelength **20**, 317
- FLÜCKIGER, K., A. MAGUN, and E. SCHANDA / The Solar Observatory at Uecht (Berne) **15**, 253 (*Report from Solar Institute*)
- FOFI, M., *see* Agnelli, G. *et al.*
- FOFI, M., *see* Cacciani, A.
- FOFI, M., *see* Cacciani, A.
- FOFI, M., *see* Cimino, M. *et al.*
- FOKKER, A. D. / Homology of Solar Flare-Associated Radio Events **2**, 316
- FOKKER, A. D. / Spectral Characteristics of Medium-Sized Solar Radio Events **8**, 376
- FOKKER, A. D. / Trajectories Followed by U-Like Solar Radio Bursts **11**, 92
- FOKKER, A. D. / Faraday Rotation Dispersion and the Distribution of Polarization Characteristics of Type III Bursts **19**, 472
- FOKKER, A. D. / On the Distribution of Magnitudes of Solar Microwave Events **67**, 101
- FOKKER, A. D. / A Note on the Mechanism of Broad Band Absorptions and Emissions in the Type IV Decimeter Continuum **77**, 255
- FOKKER, A. D. / Irregular Paths of Exciting Electrons and the Intensity-Time Profiles of Type III Bursts **93**, 379
- FOKKER, A. D., J. HOUTGAST, and C. DE JAGER / Solar Physics at the Utrecht Astronomical Institute **16**, 227 (*Report from Solar Institute*)
- FOMICHEV, V. V. and S. M. FAINSHTEIN / On a Possible Mechanism of Zebra-Pattern Generation in Solar Radio Emission **71**, 385
- FOMICHEV, V. V., *see* Chernov, G. P. *et al.*
- FOMICHEV, V. V., *see* Chertok, I. M. *et al.*
- FONTENLA, J. M. / A Prominence Model Based on Spectral Observations **64**, 177
- FONTENLA, J. M. and M. ROVIRA / The Lyman Alpha Line in Solar Prominences **85**, 141
- FONTENLA, J. M. and M. ROVIRA / Quiescent Prominence Threads Models **96**, 53
- FORBES, T. G. and E. R. PRIEST / Numerical Study of Line-Tied Magnetic Reconnection **81**, 303
- FORBES, T. G. and E. R. PRIEST / A Numerical Experiment Relevant to Line-Tied Reconnection in Two-Ribbon Flares **84**, 169
- FORBES, T. G. and E. R. PRIEST / Mass Upflows in 'Post'-Flare Loops **88**, 211
- FORBES, T. G. and E. R. PRIEST / Numerical Simulation of Reconnection in an Emerging Magnetic Flux Region **94**, 315
- FORBUSH, S. E., M. A. POMERANTZ, S. DUGGAL, and C. H. TSAO / Statistical Considerations in the Analysis of Solar Oscillation Data by the Superposed Epoch Method **82**, 111
- FORMISANO, V., F. PALMIOTTI, and G. MORENO / α -Particle Observations in the Solar Wind **12**, 479
- FORMISANO, V., *see* Cattaneo, M. B. *et al.*
- FORREST, D. J. and E. L. CHUPP / Upper Limit for the Solar Neutron Flux in the Energy Interval 20-120 MeV **6**, 339
- FORREST, D. J., E. L. CHUPP, J. M. RYAN, M. D. CHERRY, I. U. GLESKE, C. REPPIN, K. PINKAU, E. RIEGER, G. KANBACH, R. L. KINZER, C. SHARE, W. N. JOHNSON, and J. D. KURFESS / The Gamma Ray Spectrometer for the Solar Maximum Mission **65**, 15
- FORREST, D. J., *see* Suri, A. N. *et al.*
- FORT, B., *see* Leroy, J. L. *et al.*
- FORTINI, T. and M. TORELLI / The Flares of July 6 and 8, 1968 **11**, 425
- FORTINI, T., *see* Cacciani, A. *et al.*
- FORTINI, T., *see* Cacciani, A. *et al.*
- FORTUNATO, R. A. A., *see* Kaufmann, P. *et al.*
- FOSBURY, R. A. E. / Non-Thermal Line Broadening in the Solar Chromosphere **34**, 309
- FOSSAT, E. and G. RICORT / Contribution to the Observation of the Photospheric Oscillations **28**, 311
- FOSSAT, E. and F. RODDIER / A Sodium Experiment for Photospheric Velocity Field Observations **18**, 204
- FOSSAT, E., G. GREC, and M. POMERANTZ / Solar Pulsations Observed from the Geographic South Pole: Initial Results **74**, 59
- FOSSAT, E., *see* Grec, G. *et al.*
- FOSTER, P. R., *see* Flett, A. M. *et al.*
- FOUKAL, P. / The Development and Flaring of an Active Region Exhibiting Unusual Magnetic Structure. II: Active Regions **13**, 330
- FOUKAL, P. / Morphological Relationships in the Chromospheric H α Fine Structure **19**, 59
- FOUKAL, P. / H α Fine Structure and the Chromospheric Field **20**, 298
- FOUKAL, P. / Measurement of the Electron Temperature of Small 3-cm Radio Bursts **24**, 411 (*Research Note*)
- FOUKAL, P. / A Three-Component Concept of the Chromosphere and Transition Region **37**, 317
- FOUKAL, P. / The Temperature Structure and Pressure Balance of Magnetic Loops in Active Regions **43**, 327
- FOUKAL, P. and H. ZIRIN / Reply to 'The Relationship between Chromospheric Features and Photospheric Magnetic Fields' by E. N. Frazier **26**, 148

- (*Research Note*)
- FOUKAL, P. and M. SMART / Propagation of Magnetically Guided Acoustic Shocks in the Solar Chromosphere **69**, 15
- FOUKAL, P. and T. L. DUVAL, JR. / Comment on 'Average Photospheric Poloidal and Toroidal Magnetic Field Components near Solar Minimum' by Duvall *et al.* **67**, 9 (*Research Note*)
- FOUKAL, P., P. MILLER, and L. GILLIAM / Electric Fields in Coronal Magnetic Loops **83**, 83
- FOUKAL, P. V., *see* Schmahl, E. J. *et al.*
- FOUKAL, P., *see* Chiang, Wei-Hwan
- FOUKAL, P., *see* Fowler, L. A. *et al.*
- FOUKAL, P., *see* Miller, P. *et al.*
- FOUKAL, P. V., *see* Petro, L. D. *et al.*
- FOWLER, L. A., P. FOUKAL, and R. DUVAL, JR. / Sunspot Bright Rings and the Thermal Diffusivity of Solar Convection **84**, 33
- FOX, P. W. and S. P. TARAFTAR / Solar Atmospheric Model Including OH-Continuum Opacity **60**, 241
- FRACASTORO, M. G. and D. MAROCCHI / A Sunspot Analysis: 1943-1977 **60**, 171
- FRANCIS, M. H. / Non-Equilibrium Ionization in the Transition Region Network **69**, 239
- FRANCIS, M. H. and R. ROUSSEL-DUPRÉ / The SiIV λ 1393 Line in a Coronal Hole Compared to the Quiet Sun from OSO-8 Observations **53**, 465
- FRANCIS, M. H., *see* Billings, D. E. *et al.*
- FRANSEN, S., *see* Christensen-Dalsgaard, J.
- FRANK, L. A. and D. A. GURNETT / Direct Observations of Low-Energy Solar Electrons Associated with a Type III Solar Radio Burst **27**, 446
- FRANK, L. A., *see* Gurnett, D. A.
- FRANKENTHAL, S. and A. S. KRIEGER / On the Nature of Photospheric Magnetic Fields beneath Large Coronal Holes **55**, 83
- FRANKENTHAL, S., *see* Roberts, B.
- FRAZIER, E. N. / Multi-Channel Magnetograph Observations. II: Supergranulation **14**, 89
- FRAZIER, E. N. / Multi-Channel Magnetograph Observations. III: Faculae **21**, 42
- FRAZIER, E. N. / The Relations between Chromospheric Features and Photospheric Magnetic Fields **24**, 98
- FRAZIER, E. N. / The Magnetic Structure of Arch Filament Systems **26**, 130
- FRAZIER, E. N. / Comments on the Paper 'Fine Structure of Solar Magnetic Fields' by H. Zirin **26**, 442 (*Research Note*)
- FRAZIER, E. N. / A Velocity Error in Babcock-Type Magnetographs **38**, 69 (*Research Note*)
- FRAZIER, E. N. / A Realistic Approach to Magnetic Evolution **47**, 205
- FRAZIER, Edward N. and Philip H. SCHERRER / Multi-Channel Magnetograph Observations. I: Comparison with Spectroheliograms **10**, 297
- FRAZIER, E. N. and J. O. STENFLO / On the Small-Scale Structure of Solar Magnetic Fields **27**, 330
- FRAZIER, E. N., *see* Levine, R. H. *et al.*
- FRAZIER, E. N., *see* Schulz, M. *et al.*
- FRAZIER, Edward N., *see* Tanenbaum, A. S.
- FREDGA, K. / Spectroheliograms in the MgII Line at 2795.5 Å **9**, 358
- FREDGA, K. / A Comparison between MgII and Ca II Spectroheliograms **21**, 60
- FREDGA, K. and J. A. HÖGBOM / A Versatile Birefringent Filter **20**, 204
- FREDGA, KERSTIN and J. A. HÖGBOM / A Versatile Birefringent Filter (*Errata*) **21**, 249 (**20**, 204)
- FRED, 297
- FREEMAN, F. F. and B. B. JONES / Grazing Incidence Spectra of the Sun **15**, 288
- FRIDMAN, V. M., *see* Kobrin, M. M. *et al.*
- FRIEDMAN, H., *see* Meekins, J. F. *et al.*
- FRIEDMAN, M. and S. M. HAMBERGER / Plasma Turbulence in Solar Flares as an Explanation of Some Observed Phenomena **8**, 104
- FRIEDMAN, M. and S. M. HAMBERGER / On a Possible Proton Origin for Type V Continuum Radiation from a Solar Flare **8**, 398 (*Research Note*)
- FRISCH, H., *see* Smith, M. A.
- FRITZOVÁ-ŠVESTKOVÁ, L. and Z. ŠVESTKA / Electro Density in Flares. II: Results of Measurement **2**, 87
- FRITZOVÁ-ŠVESTKOVÁ, L. and Z. ŠVESTKA / Longitudinal Distribution of PCA Sources on the Sun **17**, 212
- FRITZOVÁ-ŠVESTKOVÁ, L. and Z. ŠVESTKA / A Comment on the Flare Activity in August 1972 **29**, 417 (*Research Note*)
- FRITZOVÁ-ŠVESTKOVÁ, L., R. C. CHASE, and Z. ŠVESTKA / On the Occurrence of Sympathetic Flares **48**, 275
- FRITZOVÁ-ŠVESTKOVÁ, L., *see* Howard, R. *et al.*
- FRITZOVÁ-ŠVESTKOVÁ, L., *see* Švestka, Z.
- FRITZOVÁ-ŠVESTKOVÁ, L., *see* Švestka, Z.
- FRITZOVÁ-ŠVESTKOVÁ, L., *see* Švestka, Z. *et al.*
- FRÖHLICH, C. á. L. and Z. ŠVESTKA / Longitudinal Distribution of PCA Sources on the Sun **17**, 212
- FRÖHLICH, C. and R. W. BRUSA / Solar Radiation and Its Variation in Time **74**, 209
- FROST, K. J. / The Solar Maximum Mission **86**, 7 (*reference only*)
- FROST, K. J. and A. F. TIMOTHY / The Solar Maximum Mission **47**, 389 (*Invited report, title only*)

- FROST, K. J., *see* Bai, T. *et al.*
 FROST, K. J., *see* Bohlin, J. D. *et al.*
 FROST, K. J., *see* Kaufmann, P. *et al.*
 FROST, K. J., *see* Kiplinger, A. L. *et al.*
 FROST, K. J., *see* Orwig, L. E. *et al.*
 FROST, K. J., *see* Poland, A. I. *et al.*
 FUJII, M., *see* Takakura, T. *et al.*
 FUJISHITA, M., *see* Kato, T. *et al.*
 FUJISHITA, M., *see* Kawabata, K. *et al.*
 FUKADA, Y., S. HAYAKAWA, I. KASAHARA, F. KAKINO, I. SUZUKI, Y. TANAKA, and B. V. SREEKANTAN / An Impulsive Solar X-Ray Burst in the Energy Range 90–400 keV **42**, 441
 FULCONIS, M., *see* Rozelot, J. P.
 FULLER, J. C., *see* Milkey, R. W. *et al.*
 FUNAKOSHI, Y., *see* Kawaguchi, I. *et al.*
 FUNAKOSHI, Y., *see* Kawaguchi, I. *et al.*
 FUNAKOSHI, Y., *see* Kurokawa, H. *et al.*
 FUNG, P. C. W., P. A. STURROCK, P. SWITZER, and G. VAN HOVEN / Longitude Distribution of Solar Flares **18**, 90
 FUNG, P. C. W., *see* Chin, Y. C. *et al.*
 FUNG, P. C. W., *see* Moore, R. L.
 FÜRST, E. / A Statistical Research on Solar Microwave Bursts **18**, 84 (*Research Note*)
 FÜRST, E. / The Heating of the Solar Plasma Due to Microwave Phenomena Correlated with Type II Meter Bursts **25**, 178
 FÜRST, E. / The Intensity Decrease of Microwave Bursts **28**, 159
 FÜRST, E. and W. HIRTH / A Coronal Hole Observed at 10.7 GHz with a Large Single Dish **42**, 157
 FÜRSTENBERG, F., *see* Akhmedov, Sh. B. *et al.*
 FÜRSTENBERG, F., *see* Böhme, A. *et al.*
 FÜRSTENBERG, F., *see* Böhme, A. *et al.*
 FÜRST, E., O. HACHENBERG, and W. HIRTH / The Solar Outburst on August 7, 1972 at 17 GHz and 35 GHz **28**, 533
 FÜRST, E., O. HACHENBERG, and W. ZINZ / The Brightness Distribution of the Sun at 2.8 cm Wavelength **32**, 445
 FÜRST, E., W. HIRTH, and P. LANTOS / The Radius of the Sun at Centimeter Waves and the Brightness Distribution across the Disk **63**, 257
 FÜRST, E., *see* Butz, M. *et al.*
 FÜRST, E., *see* Felli, M. *et al.*
 FÜRST, E., *see* Felli, M. *et al.*
 FÜRST, E., *see* Lantos, P. *et al.*
 FÜRST, E., *see* Lanto, *see* Butz, M. *et al.*
 FÜRST, E., *see* Raoult, A. *et al.*
 FÜRST, E., *see* Švestka, Z. *et al.*
 GABRIEL, A. H. / Measurements on the Lyman Alpha Corona **21**, 392
 GABRIEL, A. H., E. ANTONUCCI, and STEENMAN / Non-Thermal and Non-Equilibrium Effects in Soft X-Ray Flare Spectra **59**
 GABRIEL, A. H., *see* Acton, L. W. *et al.*
 GABRIEL, A. H., *see* Antonucci, E. *et al.*
 GABRIEL, A. H., *see* Antonucci, E. *et al.*
 GABRIEL, A. H., *see* Antonucci, E. *et al.*
 GABRIEL, A. H., *see* Švestka, Z. *et al.*
 GAINULLINA, R. K., *see* Obashev, S. O. *et al.*
 GAIZAUSKAS, V. / Suspended Spicules Associated with the Enhanced Bright Network in an Active Region **93**, 257
 GAIZAUSKAS, V., *see* Rice, J. B.
 GAJEWSKI, R. / On the Nature of Plasma Arcs in Solar Active Regions **35**, 385
 GALAL, A. A. / Visibility of Facular Fields in Multibands **85**, 123
 GALLI, M., *see* Attolini, M. R. *et al.*
 GALLOWAY, D. J. / Fine Structure and Evershed Motions in the Sunspot Penumbra **44**, 409
 GALLOWAY, D., *see* Hollweg, J. V. *et al.*
 GALPER, A. M., V. G. KIRILLOV-UGRYUMOV, I. G. LEIKOV, and B. I. LUCHKOV / Atmospheric Internal Gravity Waves as a Source of Quasiperiodic Variations of the Cosmic Ray Secondary Component and Their Likely Solar Origin (*Invited Review*) **82**, 447
 GALPER, A. M., *see* Volobuyev, S. A. *et al.*
 GANZ, E. D., *see* Schoolman, S. A.
 GARCIA DE LA ROSA, J. I. / Sunspot Population and Their Relation with the Solar Cycle **74**, 11
 GARCIA DE LA ROSA, J. I. / Are the Small Active Regions Related to the Decay of the Large Ones? **89**, 51
 GARCÍA DE LA ROSA, J. I. / The Observation of Intrinsically Different Emergences for Large and Small Active Regions **92**, 161
 GARCIA, Charles J., *see* Hansen, Richard T.
 GARCIA, C. J., *see* Hansen, R. T. *et al.*
 GARCIA, C. J., *see* Hansen, S. F. *et al.*
 GARCZYNSKA, I. / The Shock Waves and the Magnetic Field in the Corona above the Active Region on February 17–28, 1969 **51**, 131
 GARCZYŃSKA, I. N., B. ROMPOLT, A. O. BENZ, C. SLOTTJE, A. TLAMICHA, and C. ZANELLI / The Relation between the Surges and Solar Radio Emission **77**, 277
 GARMIRE, G., *see* Kraushaar, W. L.
 GARRIOTT, O. K., A. V. DA ROSA, M. J. DAVIS, I. S. WAGNER, and G. D. THOME / Enhancement of Ionizing Radiation during a Solar Flare **8**, 22
 GARRISON, L. M., *see* Bohlin, J. D.
 GARY, G. A., *see* Hannakam, L. *et al.*
 GARY, S. P., *see* Lemons, D. S. *et al.*

- GASANALIZADE, A. G. / On the Physical Meaning of the Freundlich-Forbes Empirical Constant **1**, 481 (*Research Note*)
- GASANALIZADE, A. G. / On the Physical Meaning of the Freundlich-Forbes Empirical Constant (*Errata*) **11**, 513 (**1**, 482)
- GASANALIZADE, A. G. / On the Freundlich Red Shift **20**, 507
- GATES, W. J., *see* Neupert, W. M.
- GAUR, V. P. / Vibration Rotation Bands of NO in Sunspots **46**, 121 (*Research Note*)
- GAUR, V. P., M. C. PANDE, and B. M. TRIPATHI / Vibration Rotation Bands of SiO in Sunspots **56**, 67 (*Research Note*)
- GAUR, V. P., M. C. PANDE, and M. SAH / Molecular Line Haze Opacity in Sunspots **62**, 83
- GAUR, V. P., *see* Pande, M. C.
- GAUT, Norman E., *see* Staelin, David H.
- GAVRUYSEVA, E. A., YU. S. KOPYSOV, and G. T. ZATSEPIN / 160-min Oscillations of the Sun as the Mean of Study of Its Internal Structure **82**, 209
- GEBBIE, K. B. and R. STEINITZ / A Mechanism for the Production of Light and Dark Contrasts in Radiatively Controlled Lines **29**, 3
- GEISS, J., P. HIRT, and H. LEUTWYLER / On Acceleration and Motion of Ions in Corona and Solar Wind **12**, 458
- GEISS, J., *see* Bochsler, P.
- GEISS, J., *see* Coplan, M. A. *et al.*
- GEISS, J., *see* Kunz, S. *et al.*
- GELFREIKH, G. B., *see* Akhmedov, Sh. B. *et al.*
- GELFREIKH, G. B., *see* Akhmedov, Sh. B. *et al.*
- GELFREIKH, G. B., *see* Bogod, V. M.
- GENESIO-ELGARTEN, V. and A. A. JOUKOFF / Solar Wind Event of January 2, 1970 **14**, 234 (*Research Note*)
- GERANIOS, A. / The August 1972 Cosmic Ray Storm. North-South Anisotropies and Related Phenomena **58**, 201
- GERASSIMENKO, M. and J. T. NOLTE / The Quantitative Interpretation of Solar X-Ray Images **60**, 299
- GERASSIMENKO, M., C. V. SOLODYNA, and J. T. NOLTE / Observational Evidence of Continual Heating in X-Ray Emitting Coronal Loops **57**, 103
- GERASSIMENKO, M., J. T. NOLTE, and R. D. PETRASSO / Comparison of the 9.1 cm and Soft X-Ray Emission from an Active Region **48**, 121
- GERASSIMENKO, M., *see* Davis, J. M. *et al.*
- GERASSIMENKO, M., *see* Evans, K. D. *et al.*
- GERASSIMENKO, M., *see* Nolte, J. T. *et al.*
- GERASSIMENKO, M., *see* Petrasso, R. D. *et al.*
- GERBIL'SKII, M. G. / On the Calculation of the $H(a, v)$ -Function **25**, 274 (*Research Note*)
- GERGELY, T. E. and W. C. ERICKSON / Decameter Storm Radiation, I **42**, 467
- GERGELY, T. E. and M. R. KUNDU / Decameter Type IV Bursts Associated with Coronal Transients **34**, 433
- GERGELY, T. E. and M. R. KUNDU / Decameter Storm Radiation, II **41**, 163
- GERGELY, T. E. and M. R. KUNDU / A Decameter Type II Burst Associated with a behind-the-Limb Flare **48**, 357 (*Research Note*)
- GERGELY, T. E. and M. R. KUNDU / Decameter Studies of the 5 September 1973 Flare **71**, 65
- GERGELY, T. E., B. D. GROSS, and M. R. KUNDU / The Diameter of the Sun at Decameter Wavelengths **99**, 323
- GERGELY, T. E., M. R. KUNDU, F. T. ERSKINE, III, C. SAWYER, W. J. WAGNER, R. ILLING, L. L. HOUSE, M. K. MCCABE, R. T. STEWART, G. J. NELSON, M. J. KOOMEN, D. MICHELS, R. HOWARD, and N. SHEELEY / Radio and Visible-Light Observations of a Coronal Arcade Transient **90**, 161
- GERGELY, T. E., *see* De la Noë, J.
- GERGELY, T. E., *see* Erickson, W. C. *et al.*
- GERGELY, T. E., *see* Kundu, M. R. *et al.*
- GERGELY, T. E., *see* Kundu, M. R. *et al.*
- GERGELY, T. E., *see* Kundu, M. R. *et al.*
- GERGELY, T. E., *see* Sawant, H. S. *et al.*
- GERGELY, T., *see* Stewart, R. T. *et al.*
- GERGELY, T., *see* Kundu, M. R.
- GESZTELYI, L., *see* Deszö, L. *et al.*
- GESZTELYI, L., *see* Simon, G. *et al.*
- GIACHETTI, R., G. VAN HOVEN, and C. CHIUDERI / The Structure of Coronal Magnetic Loops. II: MHD Stability Theory **55**, 371
- GIACHETTI, R., *see* Chiuderi, C. *et al.*
- GIACHETTI, R., *see* Chiuderi, C. *et al.*
- GIBONS, M. and D. S. SPICER / On Line Tying **69**, 57
- GIBSON, E. G. / Observations of Limb Flares with a Soft X-Ray Telescope **53**, 123
- GIBSON, E. G., *see* Vorpahl, J. A. *et al.*
- GIBSON, Jean, O.S.B., *see* Drake, Jerry F., Sr.
- GIGOLASHVILI, M. SH. / An Investigation of Macroscopic Motions Using the Ca⁺ Lines in the Prominence of 15 October 1969 **60**, 293
- GIGOLASHVILI, M. SH. / Determination of the Total Amount of Hydrogen Atoms in a Quiescent Prominence **93**, 317
- GIGOLASHVILI, M. SH. and YU. D. ŽUGŽDA / Fine Structure of Motions in a Quiescent Prominence **77**, 95
- GIGOLASHVILI, M. SH. and YU. D. ŽUGŽDA / A Model of a Quiescent Prominence on the Basis

- of Studying the $K\ Ca^+$ Line Fine Structure **87**, 43 (*Research Note*)
- GILBRETH, C. W., *see* Acton, L. W. *et al.*
- GILLESPIE, B. / An Intensity Distribution of Bright Points Observed on a CN Spectroheliogram **21**, 93 (*Research Note*)
- GILLIAM, L. B., *see* Wagner, W. J.
- GILLIAM, L., *see* Foukal, P. *et al.*
- GILMAN, P. A. / A Rossby-Wave Dynamo for the Sun, I **8**, 316
- GILMAN, P. A. / A Rossby-Wave Dynamo for the Sun, II **9**, 3
- GILMAN, P. A. / A Method for Constructing Streamlines for the Sun's Large Scale Flow from Doppler Velocities **19**, 40
- GILMAN, P. A. / Nonlinear Boussinesq Convective Model for Large Scale Solar Circulations **27**, 3
- GILMAN, P. A. / Comments on 'Solar Polar Spin-down', by Kenneth Schatten **36**, 61
- GILMAN, P. A. / Comments on Schatten's Reply to My Comments on 'Solar Polar Spindown' **37**, 491
- GILMAN, P. A. and R. HOWARD / On the Correlation of Longitudinal and Latitudinal Motions of Sunspots **93**, 171
- GILMAN, P. A., *see* Coffey, H. E.
- GILMAN, P. A., *see* Davies-Jones, R. P.
- GILMAN, P. A., *see* Eddy, J. A. *et al.*
- GIMSE, O. and G. HOSINSKY / A Spectacular Activation of a Prominence on March 25, 1967 **2**, 192
- GINGELL, T. e, O. and G. HOSINSKY / A Spectacular Activation of a Prominence on March 25, 1967 **2**, 192
- GINGELL, T. W., *see* Chapman, G. A.
- GINGERICH, Owen and C. DE JAGER / The Bilderberg Model of the Photosphere and Low Chromosphere **3**, 5
- GINGERICH, Owen and John C. RICH / The Far Ultraviolet Spectrum of the Sun **3**, 82
- GINGERICH, O., R. W. NOYES, W. KALKOFEN, and Y. CUNY / The Harvard-Smithsonian Reference Atmosphere **18**, 347
- GINGERICH, Owen, *see* Carbon, Duane
- GIORDANO, M., *see* Falciani, R. *et al.*
- GIOVARDI, C., *see* Chiuderi, C.
- GIOVANELLI, R. G. / Oscillations and Waves in a Sunspot **27**, 71
- GIOVANELLI, R. G. / Chromospheric Granulation **37**, 301
- GIOVANELLI, R. G. / A Diffuse Component in the $H\alpha$ Chromospheric Network **38**, 117
- GIOVANELLI, R. / On the Reliability of the Structure of the Low Corona as Derived from Flash Spectra **43**, 377
- GIOVANELLI, R. / Wave Systems in the Chromosphere **44**, 299
- GIOVANELLI, R. G. / Heat Transfer in the Corona and Transition Region **44**, 315
- GIOVANELLI, R. G. / Gas Entry into Non-Spotted Magnetic Tubes **52**, 315
- GIOVANELLI, R. G. / The Radiative Relaxation Time in the Chromosphere **59**, 293
- GIOVANELLI, R. G. / The Lack of Chemical Separation during the Diffusion of Gas into Solar Magnetic Tubes **62**, 51 (*Research Note*)
- GIOVANELLI, R. G. / On Radiative Dissipation of Sinusoidal Compressive Waves in the Chromosphere **62**, 253
- GIOVANELLI, R. G. / The Supergranule Velocity Field **67**, 211
- GIOVANELLI, R. G. / An Exploratory Two-Dimensional Study of the Coarse Structure of the Network Magnetic Fields **68**, 49
- GIOVANELLI, R. G. / On the Relative Roles of Unipolar and Mixed-Polarity Fields **77**, 27
- GIOVANELLI, R. G. / Sunspot Geometry and Pressure Balance **80**, 21
- GIOVANELLI, R. G. / 'In Memoriam' by JOHN T. JEFFERIES **94**, 1
- GIOVANELLI, R. G. and N. BROWN / Vertical Velocity Fluctuations in Plage-Region Magnetic Points **52**, 27
- GIOVANELLI, R. G. and D. HALL / The Helium 10830 Å Line in the Undisturbed Chromosphere **52**, 211
- GIOVANELLI, R. G. and H. P. JONES / The Three-Dimensional Structure of Atmospheric Magnetic Fields in Two Active Regions **79**, 267
- GIOVANELLI, R. G. and C. SLAUGHTER / Motion in Solar Magnetic Tubes. I: The Downflow **57**, 255
- GIOVANELLI, R. G., D. N. B. HALL, and J. W. HARVEY / A Comparison between the Helium 10830 Å and the Hydrogen $H\alpha$ Chromosphere **22**, 53
- GIOVANELLI, R. G., J. W. HARVEY, and W. C. LIVINGSTON / Motions in the Solar Magnetic Tubes. III: Outward Wave Propagation in Sunspot Umbras **58**, 347
- GIOVANELLI, R. G., W. C. LIVINGSTON, and J. W. HARVEY / Motions in Solar Magnetic Tubes. II: The Oscillations **59**, 49
- GIOVANELLI, R. G., *see* Jones, H. P.
- GIOVANELLI, R. G., *see* Jones, H. P.
- GLACKIN, D. L. / Differential Rotation of Solar Filaments **36**, 51
- GLACKIN, D. L. / Short-lived Flare-Like Phenomena in the Quiet Chromosphere **41**, 115 (*Research Note*)

- GLACKIN, D. L. / Emerging Flux Regions **43**, 317
- GLASS, R. / Spin-Orbit Electric Dipole Transmission in Beryllium-Like Ions **78**, 29
- GLASS, R. / Transitions in Highly Ionized Silicon **80**, 321
- GLEESON, L. J., *see* Allum, F. R. *et al.*
- GLEESON, L. J., *see* Ng, C. K.
- GLEESON, L. J., *see* Ng, C. K.
- GLEISSBERG, W. / Secularly Smoothed Data on the Minima and Maxima of Sunspot Frequency **2**, 231 (*Research Note*)
- GLEISSBERG, W. / The Duration of the Zonal Spot Activity **4**, 93 (*Research Note*)
- GLEISSBERG, W. / Note on the Dependence of the Duration of the Zonal Spot Activity on the Solar Rotation **14**, 166 (*Research Note*)
- GLEISSBERG, W. / The Probable Behaviour of Sunspot Cycle 21 **21**, 240
- GLEISSBERG, W. / Revision of the Probability Laws of Sunspot Variations **30**, 539
- GLENCROSS, W. M. / Continuous Energy Injection at Numerous Bright Points during Soft X-Ray Flare Enhancement **29**, 429
- GLENCROSS, W. M. / Role of Plasma Flow in Determining Structure of the Chromosphere-Corona Transition Zone of the Sun **73**, 67
- GLENCROSS, W. M., E. B. DORLING, and J. R. H. HERRING / Observations of Very Small Soft X-Ray Flares **38**, 183
- GLENCROSS, W. M., *see* Brabban, D. H. *et al.*
- GLESKE, I. U., *see* Forrest, D. J. *et al.*
- GLINER, E. B., *see* Osherovich, V. A. *et al.*
- GLOECKLER, G., *see* Armstrong, T. P. *et al.*
- GNEVYSHEV, M. N. / On the 11-Years Cycle of Solar Activity **1**, 107
- GNEVYSHEV, M. N. / Essential Features of the 11-Year Solar Cycle **51**, 175
- GNEVYSHEV, M. N. and V. I. MAKAROV / The Behaviour of Prominence Areas in the 11-Year Cycle and their Relationship with Other Solar Events **95**, 189 (*Research Note*)
- GNEVYSHEV, M. N. and V. P. MIKHAILUTSA / Stability of the Photometric Observations of the Solar Corona and Variations of Its Intensity in the Solar Cycle 21 **90**, 177
- GNEVYSHEV, M. N., G. M. NIKOLSKY, and A. A. SAZANOV / The Lyot-Coronagraph with 53 cm Objective **2**, 23
- GNEVYSHEV, M. N., *see* Mikhailutsa, V. P.
- GODOLI, G. / Solar Research at the Catania Astrophysical Observatory **9**, 246 (*Report from Solar Institute*)
- GODOLI, G. and F. MAZZUCCONI / On the Rotation Rates of Sunspot Groups **64**, 247
- GODOLI, G. and F. MAZZUCCONI / Relationships between Photospheric Plasma Angular Velocity and Solar Activity **83**, 339
- GODOLI, G. and B. C. MONSIGNORI FOSSI / On the Correction for Foreshortening for Ca Plages **1**, 148 (*Research Note*)
- GODOLI, G. and G. POLETO / A Possible Connection between N-S and E-W Solar Asymmetries **10**, 494 (*Research Note*)
- GODOLI, G., O. MORGANTE, and M. STURIALE / On the Reliability of the Catania Sunspot Area Measurements **16**, 72 (*Research Note*)
- GODOLI, G., *see* Belvedere, G. *et al.*
- GODOLI, G., *see* Cantù, A. M. *et al.*
- GODOLI, G., *see* Serio, S. *et al.*
- GOEDEKE, A. D., A. J. MASLEY, and G. W. ADAMS / Riometer Observations in the Polar Caps of the Solar Cosmic Ray Events during the IQSY **1**, 285
- GÖHRING, Rainer / On the Pseudo- π -Components in Sunspot Spectra **8**, 271
- GÖHRING, R., *see* Deubner, F.-L.
- GOH, T., *see* Roosen, J.
- GOKHALE, G. S., *see* Daniel, R. R.
- GOKHALE, M. H. / Comments on Wilson's Model of Cooling of a Sunspot **35**, 323 (*Research Note*)
- GOKHALE, M. H. / X-Ray Bright Points, Coronal Heating and the Solar Cycle **41**, 381
- GOKHALE, M. H. and C. ZWAAN / The Structure of Sunspots. I: Observational Constraints; Current Sheet Models **26**, 52
- GOKHALE, M. H., *see* Antia, H. M. *et al.*
- GOKHALE, M. H., *see* Chitre, S. M.
- GOKHALE, M. H., *see* Chitre, S. M.
- GOKHALE, M. H., *see* Venkatakrishnan, P.
- GOLDBERG, Leo, *see* Dupree, Andrea K.
- GOLDBERG, L., *see* Withbroe, G. L. *et al.*
- GOLDMAN, M. V. / Progress and Problems in the Theory of Type III Solar Radio Emission **89**, 403
- GOLDMAN, M. V., *see* Muschietti, L. *et al.*
- GOLD, R. E., *see* Nolte, J. T. *et al.*
- GOLDSMITH, D. W. / Thermal Effects in the Formation of Loop Prominences **19**, 86
- GOLDSTEIN, H., *see* Birn, J. *et al.*
- GOLDSTEIN, M. L., *see* Smith, R. A. *et al.*
- GOLD, T., *see* Benz, A. O.
- GOLOVKO, A. A. / The Crossover Effect in Sunspots and the Fine Structure of Penumbra **37**, 113
- GOLTS, E. YA., *see* Korneev, V. V. *et al.*
- GOLUB, L. / Comment on Lifetime Determination of Solar Features **46**, 115
- GOLUB, L., A. S. KRIEGER, and G. S. VAIANA / Observation of a Non-Uniform Component in the Distribution of Coronal Bright Points **42**,

131 (*Research Note*)

- GOLUB, L., A. S. KRIEGER, and G. S. VAIANA / Distribution of Lifetimes for Coronal Soft X-Ray Bright Points **49**, 79
- GOLUB, L., A. S. KRIEGER, and G. S. VAIANA / Observation of Spatial and Temporal Variations in X-Ray Bright Point Emergence Patterns **50**, 311
- GOLUB, L., A. S. KRIEGER, G. S. VAIANA, and J. W. HARVEY / Magnetic Properties of X-Ray Bright Points **53**, 111
- GOLUB, L., *see* Nolte, J. T. *et al.*
- GOLUB, L., *see* Sheeley, N. R.
- GOMBOSI, T., J. KÓTA, A. J. SOMOGYI, V. G. KURT, B. M. KUZHEVSKII, and YU. I. LOGACHEV / Analysis of the Complex Solar Particle Event on April 29–30, 1973 **54**, 441
- GONCHAROV, N. YU., *see* Abranin, E. P. *et al.*
- GONCHAROV, N. YU., *see* Abranin, E. P. *et al.*
- GONCHAROV, N. YU., *see* Baselyan, L. L. *et al.*
- GONCHAROV, N. YU., *see* Bazelyan, L. L. *et al.*
- GONCZI, G. and F. RODDIER / A Fourier Spectrum Analysis of Long Samples of Solar Line Oscillations **8**, 255
- GONZALES, D. E. / Note on the Solar Wind-Induced Drag on Comets **9**, 205
- GOODE, P. R., *see* Stebbins, R. T. *et al.*
- GOPALA RAO, U. V. / Homologous Microwave Bursts and Associated Solar Flares **14**, 389
- GOPAL SISTLA and J. W. HARVEY / Fraunhofer Lines without Zeeman Splitting **12**, 66 (*Research Note*)
- GOPASYUK, S. and L. KŘIVSKÝ / Reconnection of Magnetic Field of Active Regions by the Interaction of Their Extensions in Interplanetary Space **1**, 145 (*Research Note*)
- GOPASYUK, S. and L. KŘIVSKÝ / Reconnection of Magnetic Field of Active Regions by the Interaction of their Extensions in Interplanetary Space (*Errata*) **1**, 504 (**1**, 146)
- GOPASYUK, S. I., V. A. KOTOV, A. B. SEVERNY, and T. T. TSAP / The Comparison of the Magnetographic Magnetic Field Measured in Different Spectral Lines **31**, 307
- GORDON, I. M., *see* Bisnovaty-Kogan, G. S.
- GORGOLEWSKI, S. / The Radio Astronomy Group of the Astronomical Observatory of the N. Copernicus University, Toruń, Poland **3**, 357 (*Report from Solar Institute*)
- GOSLING, J. T. / Variations in the Solar Wind Speed along the Earth's Orbit **17**, 499
- GOSLING, J. T. and E. C. ROELOF / A Comment on the Detection of Closed Magnetic Structures in the Solar Wind **39**, 405 (*Research Note*)
- GOSLING, J. T., E. HILDNER, R. M. MACQUEEN, R. H. MUNRO, A. I. POLAND, and C. L. ROSS / Direct Observations of a Flare-Related Coronal and Solar Wind Disturbance **40**, 439
- GOSLING, J. T., E. HILDNER, R. M. MACQUEEN, R. H. MUNRO, A. I. POLAND, and C. L. ROSS / The Speeds of Coronal Mass Ejection Events **48**, 389
- GOSLING, J. T., *see* Bame, S. J. *et al.*
- GOSLING, J. T., *see* Borrini, G. *et al.*
- GOSLING, J. T., *see* Dulk, G. A. *et al.*
- GOSLING, J. T., *see* Hildner, E. *et al.*
- GOSLING, J. T., *see* Munro, R. H. *et al.*
- GOTWOLS, B. L. / Quasi-Periodic Solar Radio Pulsations at Decimetric Wavelengths **25**, 232
- GOTWOLS, B. L. / Pulsating Type IV Solar Radio Bursts **33**, 475
- GOTWOLS, B. L. and J. PHIPPS / A Solar Radio Spectrograph with High Time Resolution **26**, 386
- GOUGH, D. O. / Solar Interior Structure and Luminosity Variations **74**, 21
- GOUGH, D. O. / Foreword **82**, 7
- GOUGH, D. / Inverting Helioseismic Data **100**, 65 (*Invited Review*)
- GOUGH, D. O. and J. TOOMRE / On the Detection of Subphotospheric Convective Velocities and Temperature Fluctuations **82**, 401
- GOUGH, D. O., *see* Belvedere, G. *et al.*
- GOUGH, D. O., *see* Scherrer, P. H. *et al.*
- GOUTTEBROZE, P., *see* Vial, J. C. *et al.*
- GOUTTEBROZE, P., *see* Vial, J. C. *et al.*
- GRAF, W. / Yearly Variation in the Synodic Rotation Period of the Sun **37**, 257 (*Research Note*)
- GRAF, W. / Yearly Variation in the Synodic Rotation Period of the Sun (*Errata*) **40**, 514 (**37**, 257)
- GRAF, W. and R. N. BRACEWELL / The Height of 9.1 cm Solar Emission from Latitude Shift **28**, 425
- GRAF, W. and R. N. BRACEWELL / Latitude and Solar-Cycle Dependence of the Height of 9.1 cm Radio Emission **33**, 75
- GRAF, W. and R. N. BRACEWELL / Solar Radio Emission at 9.1 cm and Sector Boundaries **44**, 195
- GRAY, D. F. / Turbulence in Stellar Atmosphere (*Invited Review*) **59**, 193
- GREC, G., E. FOSSAT, and M. A. POMERANTZ / Full-Disk Observations of Solar Oscillation from the Geographic South Pole: Latest Results (*Invited Review*) **82**, 55
- GREC, G., *see* Fossat, E. *et al.*
- GRECO, M. A., H. GROSSI GALLEGOS, and J. R. SEIBOLD / Solar Physics at the Observatori

- Nacional de Física Cósmica, San Miguel, Argentina **14**, 503 (*Report from Solar Institute*)
- GREGG, D. P. / A Nonlinear Solar Cycle Model with Potential for Forecasting on a Decadal Time Scale **90**, 185
- GREGORY, T. S., *see* Howard, R. *et al.*
- GREVE, A. / High Quantum Number Emission and Absorption Lines of Fe VIII, Fe XV, O III, O VII of the Sun **15**, 380 (*Research Note*)
- GREVE, A. / On the Center to Limb Variation of the Separation of the Mg II, H₂ and K₂ Emission Peaks **16**, 328
- GREVE, A. / On the Size Distribution of Turbulent Elements in the Earth's Atmosphere **24**, 243
- GREVE, A. / A Remark on Turbulence and 'Production' Limited Telescopes **29**, 263
- GREVE, A. / High *n* Emission and Absorption Lines of the Sun **36**, 85
- GREVE, A. / High *n* Emission and Absorption Lines of the Sun (II) **40**, 329 (*Research Note*)
- GREVE, A. / The Zeeman Broadening of High *n* Solar Recombination Lines **44**, 371
- GREVE, A. / High *n* Solar Radio Recombination Lines **52**, 423
- GREVE, A. / Further Evidence for Downflow in the Solar Atmosphere **58**, 287 (*Research Note*)
- GREVE, A. and C. D. McKEITH / The Ultraviolet Solar Spectrum 2756 Å–2831 Å **37**, 3
- GREVE, A. and C. D. McKEITH / The Influence of Spectral Resolution on Line Blending and Wavelength Positions in the Solar UV Spectrum **65**, 405
- GREVE, A. and W. WAMSTEKER / Comparison of UV Spectra from Solar-Type Stars **94**, 3
- GREVE, A., C. D. McKEITH, and N. E. McKEITH / High Resolution Ultraviolet Solar Spectra in the Region 2765–2822 Å **28**, 289
- GREVESSE, N. / Solar Abundances of Lithium, Beryllium and Boron **5**, 159
- GREVESSE, N. / Abundances of Heavy Elements in the Sun **6**, 381
- GREVESSE, N. and G. BLANQUET / Abundances of the Rare Earths in the Sun **8**, 5
- GREVESSE, N. and J. P. SWINGS / The Solar Abundance of Nickel from Photospheric [Ni II] Lines **13**, 19
- GREVESSE, N., *see* Biémont, E. *et al.*
- GREVESSE, N., *see* Swings, J. P.
- GRIFFIN, Roy N., *see* Neel, Carr B.
- GRIGORJEV, V. M. / Magnetic Knots near a Sunspot **6**, 67
- GRIGORJEV, V. M. and J. M. KATZ / The Cross-over and Magneto-Optical Effects in Sunspot Spectra **22**, 119
- GRIGORJEV, V. M. and J. M. KATZ / Magneto-active Lines in the Medium with the Velocity Gradient **42**, 21
- GRIGORJEV, V. M., *see* Bappu, M. K. V.
- GRIGORJEV, V. M., *see* Lebedev, N. N.
- GRIGORYEVA (EFFENDIEVA), S. A., *see* Teplitskaja, R. B. *et al.*
- GRINEVA, YU. I., V. I. KAREV, V. V. KORNEEV, V. V. KRUTOV, S. L. MANDEL'STAM, L. A. VAINSTEIN, B. N. VASILYEV, and I. A. ZHITNIK / Solar X-Ray Spectra Observed from the 'Inter-cosmos-4' Satellite and the 'Vertical-2' Rocket **29**, 441
- GRINEVA, YU. I., *see* Beigman, I. L.
- GROGNARD, R. J.-M. / Numerical Simulation of the Weak Turbulence Excited by a Beam of Electrons in the Interplanetary Plasma **81**, 173
- GROGNARD, R. J.-M. / Limitation Imposed by Strong Langmuir Turbulence on the Self-Consistency of the Quasi-Linear Dynamics **83**, 207
- GROGNARD, R. J.-M. / Partial Reconstruction of the Initial Conditions for Streams of Energetic Electrons Associated with a Solar Type III Burst **94**, 165
- GROGNARD, R. J.-M. and D. J. McLEAN / Non-Existence of Linear Polarization in Type III Solar Bursts at 80 MHz **29**, 149
- GROISMAN, G., *see* Chapman, G. A.
- GRONSTAL, P. T., *see* Bukata, R. P.
- GRONSTAL, P. T., *see* Bukata, R. P. *et al.*
- GROS, M., *see* Barouch, E. *et al.*
- GROS, M., *see* Dilworth, C. *et al.*
- GROSS, B. D., *see* Gergely, T. E. *et al.*
- GROSSI GALLEGOS, H. and M. E. MACHADO / Macroscopic Motions in Prominences. II: Optical Pairs and Interacting Prominences **31**, 427
- GROSSI GALLEGOS, H., H. MOLNAR, and J. R. SEIBOLD / Excited Lines in the H and K Region of Ca II in the Solar Flare on March 12, 1969 **16**, 120
- GROSSI GALLEGOS, H., *see* Greco, M. A. *et al.*
- GROSSI GALLEGOS, H., *see* Machado, M. E.
- GROSSI GALLEGOS, H., *see* Machado, M. E. *et al.*
- GROSSMANN-DOERTH, U. / On Astronomical Seeing: The Single Schlieren Model **9**, 210
- GROSSMANN-DOERTH, U. / On Temperature in Line-Gap Regions **13**, 287
- GROSSMANN-DOERTH, U. and M. VON UEXKÜLL / Spectral Investigation of Chromospheric Fine Structure **20**, 31
- GROSSMANN-DOERTH, U. and M. VON UEXKÜLL / Spectral Investigation of the Chromosphere. II. The Nature of the Mottles and a Model of the Overall Structure **28**, 119
- GROSSMANN-DOERTH, U. and M. VON UEXKÜLL / Spectroscopic Investigation of the Chromo-

- phere. III: H α Line Profile from the Interior Supergranular Cells **30**, 71
- GROSSMANN-DOERTH, U. and M. VON UEXKÜLL / Spectral Investigation of the Chromosphere. V: Observation and Analysis of H β **42**, 303
- GROSSMANN-DOERTH, U. and M. VON UEXKÜLL / Spectral Investigation of the Chromosphere. VI: Observations of H α Close to the Limb **55**, 321
- GROSSMANN-DOERTH, U., F. KNEER, and M. VON UEXKÜLL / Properties of the Solar Ca II K-Line at High Spatial Resolution **37**, 85
- GROSSMANN-DOERTH, U., F. KNEER, M. V. UEXKÜLL, G. E. ARTZNER, and J. C. VIAL / Observations of Chromospheric Lines from OSO-8 **66**, 3
- GROSSMANN-DOERTH, U., *see* Cram, L. E. *et al.*
- GRUNDY, R. E. / A New Shock Locus for Similarity Solutions in One-Dimensional Unsteady Gas Dynamics **40**, 227
- GRZEDZIELSKI, S. / Non-Radial Oscillations and Energy Transport in Rotating Solar (Stellar) Wind **21**, 225
- GU, X. M., B. S. LI, Y. J. DING, S. C. LI, and Z. LI / The H α -Cyclonic Spectra of a Flare Loop System on 1981 April 27 **87**, 155
- GUBCHENKO, V. M. and V. V. ZAITSEV / On Proton and Electron Acceleration by Shock Waves during Large Solar Flares **63**, 337
- GUBCHENKO, V. M. and V. V. ZAITSEV / The Source Model of Low-Energy Electrons Responsible for Type I and Type III Radio Noise Storms **89**, 391
- GUHA, A. K., *see* Bohlin, J. D. *et al.*
- GUIDICE, D. A. and J. P. CASTELLI / Spectral Distributions of Microwave Bursts **44**, 155
- GUIDI, I., *see* Duggal, S. P. *et al.*
- GUIONNET, M., *see* Bonnelle, C. *et al.*
- GULYAEV, R. A. / The Intensity Distribution of the D $_3$ Helium Line near the Solar Limb **18**, 410
- GULYAEV, R. A. / On the Temperature of the Helium Emission Regions in the Solar Atmosphere **24**, 72
- GULYAEV, R. A. / The Brightness of the Helium D $_3$ Line in the Undisturbed Chromosphere from Eclipse Observations **44**, 25
- GULYAEV, R. A., *see* Ajmanova, G. K. *et al.*
- GULYAEV, R. A., *see* Nikolsky, G. M. *et al.*
- GURBUTT, P. A. / The Effect of Partial Ionisation of a Gas on the Electrical Conductivity, with Reference to Sunspot Umbrae **33**, 403
- GURMAN, J. B. / The Mg II h Line in Sunspot Umbrae **90**, 13 (*Research Note*)
- GURMAN, J. B. / The Mg II h Line in Sunspot Umbrae (*Errata*) **92**, 391 (**90**, 13)
- GURMAN, J. B. and L. L. HOUSE / Vector Magnetic Fields in Sunspots. I: Weak-Line Observations **71**, 5
- GURMAN, J. B., G. L. WITHBROE, and J. W. HARVEY / A Comparison of EUV Spectroheliograms and Photospheric Magnetograms **34**, 100
- GURMAN, J. B., *see* Henze, W., Jr. *et al.*
- GURMAN, J. B., *see* Kingston, A. E. *et al.*
- GURNETT, D. A. and L. A. FRANK / Electrostatic Plasma Oscillations Associated with Type III Radio Emissions and Solar Electrons **45**, 477
- GURNETT, D. A. and L. A. FRANK / The Relationship of Electron Plasma Oscillations to Type III Radio Emissions and Low-Energy Solar Electrons **46**, 459 (*abstract only*)
- GURNETT, D. A., *see* Baumback, M. M. *et al.*
- GURNETT, D. A., *see* Frank, L. A.
- GURTOVENKO, E. A. / A Peculiar Sodium 'Flare' on the Sun **1**, 389
- GURTOVENKO, E. A. / Solar Physics at the Main Astronomical Observatory of the Ukrainian Academy of Sciences **4**, 108 (*Report from Solar Institute*)
- GURTOVENKO, E. A. / On the Problem of the Flare-Like Emission in Sodium Lines **16**, 413
- GURTOVENKO, E. A. / The Total Photospheric Motion Field **45**, 25
- GURTOVENKO, E. A. / Solar Physics at the Main Astronomical Observatory of the Ukrainian Academy of Sciences **80**, 317 (*Report from Solar Institute*)
- GURTOVENKO, E. A. and K. V. ALIKAYEVA / The Physical Conditions in Inner Corona Derived from Spectral Data of the Solar Eclipse on 7 March, 1970 **21**, 325
- GURTOVENKO, E. A. and L. U. FEDORENKO / The Use of a Laser Beam for Investigating the Instrumental Profile of a Double-Pass Solar Spectrograph **6**, 465
- GURTOVENKO, E. A. and N. N. KONDRASHOVA / The Empirical Determination of Damping Constants in the Solar Photosphere. I: Preliminary Results for Fe I Lines **68**, 17
- GURTOVENKO, E. A. and V. A. RATNIKOVA / Supplementary Remarks to 'On the Average Depth of Formation of Weak Fraunhofer Lines' by E. Gurtovenko, V. Ratnikova, and C. de Jager **42**, 43 (*Research Note*)
- GURTOVENKO, E. A. and V. A. RATNIKOVA / SHEMINOVA / Comparison of Effective Depths of Fraunhofer Line Formation Calculated by Various Methods **58**, 241 (*Research Note*)
- GURTOVENKO, E. and V. TROYAN / The Use of the Goldberg-Unno Method for the Investigation of Small-Scale Photosphere Motions **20**, 264

- GURTOVENKO, E. A., G. L. FEDORCHENKO, and N. N. KONDRASHOVA / The Empirical Determination of Damping Constants in the Solar Photosphere. II: Results Inferred from the Wings of Fe I Lines **77**, 291
- GURTOVENKO, E. A., *see* Kondrashova, N. N.
- GURTOVENKO, E., V. RATNIKOVA, and C. DE JAGER / On the Average Optical Depth of Formation of Weak Fraunhofer Lines **37**, 43
- GUSEINOV, R. E. / The Shemakha Astrophysical Observatory of the Academy of Sciences of the Azerbaijan S.S.R. **16**, 490 (*Report from Solar Institute*)
- GUSEINOV, R. E. / On the Aller's Admixture Radiation Effect during the Compression Process in the Solar Corona and Generation of Coronal Formations **28**, 457
- GUSEINOV, R. E. / On Some Results of Calculations of the Chromospheric Flare Initial Phase Model According to the Strong Gasodynamic Explosion Theory **31**, 401
- GUSEINOV, R. E., L. B. TZIRULNIK, and A. H. BABAYEV / On a Method to Determine the Effective Extension, Visibility of the Balmer Continuum, and the Effective Mass in Solar Flares **34**, 207
- GUSSENHOVEN, M. S. and R. L. CAROVILLANO / Restrictions on Radial Magnetic Field and Flow Solutions for the Solar Wind **29**, 233
- GUSTAFSON, E. K., *see* Scherrer, P. H. *et al.*
- GUTTRIDGE, P., *see* Acton, L. W. *et al.*
- GYÖRI, L. / Imaging Properties of a Photoheliograph with a Lyot Plane Shutter **99**, 365
- HAAS, R. W., *see* Hagen, J. P. *et al.*
- HABBAL, S. R. and G. L. WITHBROE / Spatial and Temporal Variations of EUV Coronal Bright Points **69**, 77
- HABBAL, S. R., E. LEER, and Th. E. HOLZER / Heating of Coronal Loops by Fast Mode MHD Waves **64**, 287
- HABBAL, S. R., R. RONAN, and G. L. WITHBROE / Spatial and Temporal Variations of Solar Coronal Loops **98**, 323
- HABBAL, S. R., *see* Withbroe, G. L. *et al.*
- HACHENBERG, O., P. STEFFEN, and W. HARTH / The Sun at 8.5 mm Wavelength - Results of Observations with High Angular Resolution **60**, 105
- HACHENBERG, O., *see* Fürst, E. *et al.*
- HACHENBERG, O., *see* Fürst, E. *et al.*
- HADDOCK, F. T. and H. ALVAREZ / The Prevalence of Second Harmonic Radiation in Type III Bursts Observed at Kilometric Wavelengths **29**, 183
- HADDOCK, F. T., *see* Fitzenreiter, R. J. *et al.*
- HADDOCK, F., *see* Alvarez, H. *et al.*
- HADJEI, B. / On the Temporal Variation of the Solar Continuous Brightness Fluctuations. Time Dependence of the Spatial Power Spectra **73**, 25
- HAGEN, JOHN P. and DONALD F. NEIDIG, JR. / Identification of Two Distinctive Types of Centimeter Radio Bursts with Flare Location (*Errata*) **20**, 520 (**18**, 305)
- HAGEN, J. P. and D. F. NEIDIG, JR. / Identification of Two Distinctive Types of Centimeter Radio Bursts with Flare Location **18**, 305
- HAGEN, J. P., P. N. SWANSON, R. W. HAAS, F. L. WEFER, and R. W. VOGT / Observations of the 7 March, 1970 Total Solar Eclipse at Wavelengths of 3.2 and 8.3 mm **21**, 286
- HAGEN, J. P., *see* Swanson, P. N.
- HAGEN, J. P., *see* Swanson, P. N. *et al.*
- HAGYARD, M. J. / Analytic Solutions to the Unno Transfer Equations for the Stokes Parameters in a Milne-Eddington Atmosphere **16**, 286 (*Research Note*)
- HAGYARD, M. J. and D. TEUBER / Comparisons of Measured and Calculated Potential Magnetic Fields **57**, 267
- HAGYARD, M. J., N. P. CUMINGS, E. A. WEST, and J. E. SMITH / The MSFC Vector Magnetograph **80**, 33
- HAGYARD, M., B. C. LOW, and E. TANDBERG-HANSEN / On the Presence of Electric Currents in the Solar Atmosphere. I: A Theoretical Framework **73**, 257
- HAGYARD, M. J., J. B. SMITH, JR., D. TEUBER, and E. A. WEST / A Quantitative Study Relating Observed Shear in Photospheric Magnetic Fields to Repeated Flaring **91**, 115
- HAGYARD, M. J., D. TEUBER, E. A. WEST, E. TANDBERG-HANSEN, W. HENZE, JR., J. M. BECKERS, M. BRUNER, C. L. HYDER, and B. W. WOODGATE / Vertical Gradients of Sunspot Magnetic Fields **84**, 13
- HAGYARD, M. J., E. A. WEST, and N. P. CUMINGS / The Spiral Configuration of Sunspot Magnetic Fields **53**, 3
- HAGYARD, M. J., *see* DeLoach, A. C. *et al.*
- HAGYARD, M. J., *see* Henze, W., Jr. *et al.*
- HAGYARD, M. J., *see* Krall, K. R. *et al.*
- HAGYARD, M. J., *see* Teuber, D. *et al.*
- HAGYARD, M. J., *see* West, E. A.
- HAGYARD, M. J., *see* Wu, S. T. *et al.*
- HAISCH, B. M. and E. S. CLAFLIN / X-Ray Resonance Scattering in a Spherically Symmetric Coronal Model **99**, 101
- HAISCH, B. M., *see* Acton, L. W. *et al.*
- HAI-SHOU YANG, HOU-MEI CHANG, and J. W.

- HARVEY / The Theory of Quadrupolar Sunspots and the Active Region of August, 1972 (*Errata*) **92**, 391 (**84**, 139)
- HAKURA, Y. / Solar Cycle Variation in Energetic Particle Emissivity of the Sun **39**, 493
- HALL, D. N. B., *see* Breckinridge, James B.
- HALL, D. N. B., *see* Giovanelli, R. G. *et al.*
- HALL, D., *see* Giovanelli, R. G.
- HALL, D. N. B., *see* Noyes, R. W. *et al.*
- HALLINI, R., *see* Edlén, B.
- HALL, L. A. / Solar Flares in the Extreme Ultraviolet **21**, 167
- HALL, L. A., *see* Donnelly, R. F.
- HALL, L. A., *see* Hinteregger, H. E.
- HALVORSEN, H. D., *see* Engvold, O.
- HAMANA, S., *see* Hirayama, T. *et al.*
- HAMBERGER, S. M., *see* Friedman, M.
- HAMBERGER, S. M., *see* Friedman, M.
- HANNAKAM, L., G. A. GARY, and D. L. TEUBER / Computation of Solar Magnetic Fields from Photospheric Observations **94**, 219
- HANSEN, E. R., *see* Lites, B. W.
- HANSEN, R. and S. HANSEN / Global Distribution of Filaments during Solar Cycle No: 20 **44**, 225
- HANSEN, Richard T., Charles J. GARCIA and Shirley F. HANSEN / Brightness Variations of the White Light Corona during the Years 1964-67 **7**, 417
- HANSEN, Richard T., Shirley F. HANSEN and Harold G. LOOMIS / Differential Rotation of the Solar Electron Corona **10**, 135
- HANSEN, R. T., S. F. HANSEN, and C. J. GARCIA / Mauna Loa Coronagraph Observations around the 7 March 1970 Eclipse **15**, 387
- HANSEN, R. T., S. F. HANSEN, C. J. GARCIA, and D. E. TROTTER / K-Coronal Enhancements and Chromospheric Plages **18**, 271
- HANSEN, R. T., *see* Hansen, S. F.
- HANSEN, R. T., *see* Hansen, Shirley F. *et al.*
- HANSEN, R. T., *see* Hildner, E. *et al.*
- HANSEN, R. T., *see* Koomen, M. *et al.*
- HANSEN, R. T., *see* Parker, G. D. *et al.*
- HANSEN, R. T., *see* Parker, G. D. *et al.*
- HANSEN, R. T., *see* Pneuman, G. W. *et al.*
- HANSEN, R. T., *see* Riddle, A. C. *et al.*
- HANSEN, R. T., *see* Stewart, R. T. *et al.*
- HANSEN, R. T., *see* Tandberg-Hanssen, E. *et al.*
- HANSEN, R. T., *see* Wagner, W. J. *et al.*
- HANSEN, S. F. and R. T. HANSEN / Differential Rotation and Reconnection as Basic Causes of Some Coronal Reorientations **44**, 503
- HANSEN, S. F. and R. T. HANSEN / Reorientation of Global Coronal Magnetic Fields Due to Differential Rotation **51**, 169
- HANSEN, S. F., R. T. HANSEN, and C. J. GARCIA / Evolution of Coronal Helmets during the Ascending Phase of Solar Cycle 20 **26**, 202
- HANSEN, S., *see* Hansen, R.
- HANSEN, Shirley F., *see* Hansen, Richard T.
- HANSEN, S. F., *see* Hansen, R. T. *et al.*
- HANSEN, S. F., *see* Koomen, M. *et al.*
- HANSEN, S. F., *see* Leblanc, Y. *et al.*
- HANSEN, S. F., *see* Parker, G. D. *et al.*
- HANSEN, S. F., *see* Parker, G. D. *et al.*
- HANSEN, S. F., *see* Pneuman, G. W. *et al.*
- HANSEN, S. F., *see* Sawyer, C.
- HANSEN, S. F., *see* Stewart, R. T. *et al.*
- HANSEN, S. F., *see* Wagner, W. J. *et al.*
- HANSEN, T. / On the Spread Function for Stray Light **32**, 505 (*Research Note*)
- HANSEN, T. L., *see* Albrechtsen, F.
- HAN, S. M., *see* Nakagawa, Y. *et al.*
- HAN, S. M., *see* Wu, S. T. *et al.*
- HAN, S. M., *see* Wu, S. T. *et al.*
- HANSTEEN, V., *see* Andersen, B. N. *et al.*
- HARKNESS, Richard L., Jr. / Plasma Wave Propagation in the Neighborhood of a Magnetic Neutral Point **10**, 154
- HARRIES, J. R. / Solar X-Ray Bursts and Their Relation to Hz and Microwave Emissions **13**, 467 (*Research Note*)
- HARRIES, J. R., *see* Allum, F. R. *et al.*
- HARRIES, J. R., *see* Bartley, W. C. *et al.*
- HARRIS, L. J., *see* Croom, D. L. *et al.*
- HARRISON, R. A., G. M. SIMNETT, P. HOYNG, H. LAFLEUR, and H. F. VAN BEEK / The Structure and Evolution of a Solar Flare as Observed in 3.5-30 keV X-Rays **84**, 237
- HARRISON, R. A., P. W. WAGGETT, R. D. BENTLEY, K. J. H. PHILLIPS, M. BRUNER, M. DRYER, and G. M. SIMNETT / The X-Ray Signature of Solar Coronal Mass Ejections **97**, 387
- HARRISON, R. A., *see* Simnett, G. M.
- HARSHILADZE, A. F., *see* Ivanov, K. G.
- HARTH, W., *see* Hachenberg, O. *et al.*
- HARTMANN, L. / Mass Loss from Solar-Type Stars **100**, 587
- HARTMANN, R. / A New Representation of the 80-Year Cycle in Sunspot Frequency **21**, 246 (*Research Note*)
- HARVEY, C. C. / A Model Exciter for Type III Solar Radiobursts **40**, 193
- HARVEY, C. C. / Type III Solar Radioburst Profiles and the Associated Electron Energy Spectra **46**, 509 (*abstract only*)
- HARVEY, J. W. / Short Period Oscillations and Doppler Velocity Gradients **11**, 26 (*Research Note*)
- HARVEY, J. W. / C₂ in Sunspots **24**, 354 (*Research Note*)

- HARVEY, J. W. / Fraunhofer Lines with Large Zeeman Splitting **28**, 9
- HARVEY, J. W. / Polarization of Red System CN Lines in Sunspots **28**, 43
- HARVEY, G. A. and L. R. McNARRY / The Polarization of Solar Radio Emission at 74 MHz: May 18-26, 1967 **11**, 467
- HARVEY, J. W. and N. R. SHEELEY, JR. / A Comparison of He II 304 Å and He I 10830 Å Spectroheliograms **54**, 343
- HARVEY, J. and E. TANDBERG-HANSEN / The Magnetic Field in some Prominences measured with the He I, 5876 Å Line **3**, 316
- HARVEY, J. and R. HOWARD / Observations of Short Period Oscillations in Two Dimensions **23**, 300
- HARVEY, J. and W. LIVINGSTON / Magnetograph Measurements with Temperature-Sensitive Lines **10**, 283
- HARVEY, J. W., *see* Bhatnagar, A. *et al.*
- HARVEY, J. W., *see* Giovanelli, R. G. *et al.*
- HARVEY, J. W., *see* Giovanelli, R. G. *et al.*
- HARVEY, J. W., *see* Golub, L. *et al.*
- HARVEY, J. W., *see* Gopal Sistla
- HARVEY, J. W., *see* Gurman, J. B. *et al.*
- HARVEY, J. W., *see* Harvey, K.
- HARVEY, J. W., *see* Harvey, K. L.
- HARVEY, J. W., *see* Harvey, K. L. *et al.*
- HARVEY, J. W., *see* Kahler, S. W. *et al.*
- HARVEY, J. W., *see* Nakagawa, Y. *et al.*
- HARVEY, J. W., *see* Rhodes, E. J., Jr. *et al.*
- HARVEY, J. W., *see* Rhodes, E. J., Jr. *et al.*
- HARVEY, J. W., *see* Sheeley, N. R., Jr.
- HARVEY, J. W., *see* Sheeley, N. R., Jr.
- HARVEY, J. W., *see* Sheeley, N. R. *et al.*
- HARVEY, J. W., *see* Stenflo, J. O.
- HARVEY, J. W., *see* Yang, H.-S. *et al.*
- HARVEY, J., *see* Altschuler, M. D. *et al.*
- HARVEY, J., *see* Howard, R.
- HARVEY, J., *see* Livingston, W.
- HARVEY, J., *see* Newkirk, Jr., Gordon
- HARVEY, K. L. / The Explosive Phase of Solar Flares **16**, 423
- HARVEY, K. and J. W. HARVEY / Observations of Moving Magnetic Features near Sunspots **28**, 61
- HARVEY, K. L. and J. W. HARVEY / A Study of the Magnetic and Velocity Fields in an Active Region **47**, 233
- HARVEY, K. L. and S. F. MARTIN / Ephemeral Active Regions **32**, 389
- HARVEY, K. L. and F. RECELY / He I 10830 Observations of the 3N/M4.0 Flare of 4 September, 1982 **91**, 127
- HARVEY, K. L., J. W. HARVEY, and S. F. MARTIN / Ephemeral Active Regions in 1970 and 1973 **40**, 87
- HARVEY, K. L., S. F. MARTIN, and A. C. RIDDLE / Correlation of a Flare-Wave and Type II Burst **36**, 151
- HARVEY, K. L., N. R. SHEELEY, JR., and J. W. HARVEY / Magnetic Measurements of Coronal Holes during 1975-1980 **79**, 149
- HARVEY, K. L., *see* Martin, S. F.
- HASAN, S. S. / Magnetohydrodynamic Equilibrium and Stability of Pre-Flare Loops. Constant Pitch Field **67**, 267
- HASAN, S. S. and P. VENKATAKRISHNAN / A Time-Dependent Model for Spicule Flow **73**, 45
- HASAN, S. S. and P. VENKATAKRISHNAN / Transient Response of the Solar Wind to Changes in Flow Geometry. Flows in Coronal Holes **80**, 385
- HASAN, S. S., *see* Venkatakrishnan, P.
- HASEGAWA, A. / Kinetic Theory of MHD Instabilities in a Nonuniform Plasma **47**, 325
- HASHIM, A., M. BERCOVITCH, and J. F. STELJES / Streaming of Galactic Cosmic Rays in the Interplanetary Magnetic Field **22**, 220
- HATHAWAY, D. H. / Nonlinear Simulations of Solar Rotation Effects in Supergranules **77**, 341
- HATTON, C. J. / Solar Flares and the Cosmic Ray Intensity **66**, 159
- HATTON, C. J., *see* Bowe, G. A.
- HAUG, E. / Polarization of Hard X-Rays from Solar Flares **25**, 425
- HAUG, E. / Contribution of Electron-Electron Bremsstrahlung to Solar Hard X-Radiation during Flares **45**, 453
- HAUG, E. / Photoelectric Absorption of Hard X-Rays in the Solar Atmosphere **48**, 261 (Research Note)
- HAUG, E. / On the Nonthermal Excitation and Polarization of X-Ray Lines during Solar Flares **61**, 129
- HAUG, E. / Density Dependence of Forbidden Transitions within $3s^2 3p^5 3d$ of the Coronal Ion Fe IX **61**, 311
- HAUG, E. / Electron Impact Polarization of X-Ray Lines from Hydrogen-Like Ions during Solar Flares **71**, 77
- HAUG, E. and G. ELWERT / Evidence for Beamed Electrons in a Limb X-Ray Flare Observed by HXIS **99**, 219
- HAUG, E., *see* Elwert, G.
- HAUG, E., *see* Elwert, G.
- HAUGE, Øivind / The Abundance of Cadmium in the Solar Atmosphere **10**, 315
- HAUGE, Ø. / The Isotope Ratio of Europium in the Solar Atmosphere **11**, 17

- HAUGE, Ø. / Isotopes of Rubidium in the Sun **26**, 263
- HAUGE, Ø. / A Search for the Solar Sr 87 Content and the Solar Rb/Sr Ratio **26**, 276
- HAUGE, Ø. / Solar Isotopic Composition and Abundance of Europium **27**, 286
- HAUGE, Ø. / On the Solar Bismuth Content **34**, 33 (*Research Note*)
- HAUGE, Ø. and H. SØRLI / The Solar Abundance of Thorium and Lead **30**, 301
- HAUGE, Ø. and N. H. YOUSSEF / The Solar Niobium Abundance **41**, 67 (*Research Note*)
- HAUGEN, E. / The Velocity Field surrounding Sunspots, as derived from Observations of H α **2**, 227 (*Research Note*)
- HAUGEN, E. / On the Chromospheric Velocity Field in Sunspot Regions **9**, 88
- HAUGE, Ø., *see* Andersen, T. *et al.*
- HAUGE, Ø., *see* Biémont, E. *et al.*
- HAUGE, Ø., *see* Ekeland, A.
- HAUPT, R. F., *see* Duncombe, R. L. *et al.*
- HAURWITZ, M. W., *see* Sawyer, C.
- HÄUSLER, B., *see* Scholer, M. *et al.*
- HAVNES, O. / The Umbral Flash as a Magneto-Acoustic Wave Phenomenon **13**, 323
- HAYAKAWA, S., *see* Fukada, Y. *et al.*
- HAYASHI, N., *see* Deubner, F. L.
- HAYES, R. W., *see* Acton, L. W. *et al.*
- HAYWARD, J., *see* Brown, J. C.
- HAYWARD, J., *see* Brown, J. C.
- HAYWARD, J., *see* MacKinnon, A. L. *et al.*
- HAZELTON, L., Jr., *see* Hirschberg, J. G. *et al.*
- HEARN, A. G. / An Explanation of the Observed Differences between Coronal Holes and Quiet Coronal Regions **51**, 159
- HEASLEY, J. N. / Asymmetries of the Solar Ca II Lines **44**, 275
- HEASLEY, J. N., F. KNEER, and G. A. CHAPMAN / The Effects of Partial Redistribution on Facular K Line Profiles **52**, 309
- HEASLEY, J. N., R. W. MILKEY, and O. ENGVOLD / The Ca II Emission Lines in Quiescent Prominences **51**, 315
- HEASLEY, J. N., *see* Auer, L. H. *et al.*
- HEATH, D. F., J. M. WILCOX, L. SVALGAARD, and T. L. DUVAL / Relation of the Observed Far Ultraviolet Solar Irradiance to the Solar Magnetic Sector Structure **45**, 79 (*Research Note*)
- HEATH, D. F., *see* Schatten, K. H.
- HECKMAN, Gary R., *see* Dryer, Murray
- HEDEMAN, E. Ruth, *see* Dodson, Helen W.
- HEDEMAN, E. R., *see* Dodson, H. W.
- HEDEMAN, E. R., *see* Dodson, H. W.
- HEDEMAN, E. R., *see* Roelof, E. C. *et al.*
- HEDEMAN, E. R., *see* Švestka, Z. *et al.*
- HEDGEcock, P. C. / Measurements of the Interplanetary Magnetic Field in Relation to the Modulation of Cosmic Rays **42**, 497
- HEDGEcock, P. C. / The Heliographic Latitude Dependence and Sector Structure of the Interplanetary Magnetic Field 1969–1974: Results from the HEOS Satellites **44**, 205
- HEDGEcock, P. C., *see* Balogh, A. *et al.*
- HEGWER, F., *see* Rust, D. M.
- HEIKKILA, W. J. / The Reason for Magnetospheric Substorms and Solar Flares **88**, 329
- HELPER, H. L., *see* McMullin, J. N.
- HELLIWELL, R. A., *see* Dunckel, N. *et al.*
- HENDERSON, G., *see* Marshall, P. M.
- HENDL, R. G., *see* Ward, F. *et al.*
- HENKEL, R. / A Feature of the Secularly Smoothed Maxima of Sunspot Frequency **20**, 345 (*Research Note*)
- HENKEL, R. / Evidence for an Ultra-Long Cycle of Solar Activity **25**, 498 (*Research Note*)
- HENNESSEY, J. J. / Solar Work at Manila Observatory **9**, 496 (*Report from Solar Institute*)
- HENOUX, J. C. / Sur une particularité de la composante π du triplet normal dans l'ombre d'une tache **4**, 315 (*Research Note*)
- HENOUX, J. C. / Anisotropy and Polarization of Solar X-Ray Bursts **42**, 219
- HENOUX, J. C. and Y. NAKAGAWA / Effects of Soft X-Ray Flux on the Lower Solar Atmosphere in Flares **53**, 279
- HENOUX, J.-C., G. CHAMBE, D. HERISTCHI, M. SEMEL, B. WOODGATE, R. SHINE, and J. BECKERS / Conductive Heat Flux in the Chromosphere Derived from Line Linear Polarization Observation **86**, 115
- HENOUX, J. C., *see* Bonnelle, C. *et al.*
- HENOUX, J. C., *see* Boyer, R. *et al.*
- HENSON, G. D. and J. C. KEMP / Broad-Band Circular Polarimetry of Sunspots, 0.4–1.7 Microns: Spatial Scans with a 3.4 arc sec Diameter Aperture **93**, 289
- HENZE, W., Jr. / On the Chromospheric Observations at the 1962 Eclipse **9**, 56
- HENZE, W., Jr. / Analysis of the Chromospheric Hydrogen Spectrum at the 1962 Eclipse **9**, 65
- HENZE, W., Jr. / Analysis of UVSP Dopplergram and Magnetograms and their Calibration Using the Orbital Velocity of the SMM Spacecraft **92**, 67
- HENZE, W., Jr. and A. K. DUPREE / Solar Rotation in the Chromosphere and Corona **33**, 425
- HENZE, W., Jr., E. TANDBERG-HANSEN, M. HAGYARD, B. E. WOODGATE, R. A. SHINE, M. BECKERS, M. BRUNER, J. B. GURMAN, C. I. HYDER, and E. A. WEST / Observations of the

- Longitudinal Magnetic Field in the Transition Region and Photosphere of a Sunspot **81**, 231
- HENZE, W., E. TANDBERG-HANSEN, E. J. REICHMANN, and R. G. ATHAY / SMM/UVSP Observations of the Distribution of Transition Region Oscillations and Other Properties in a Sunspot **91**, 33
- HENZE, W., Jr., *see* Dupree, A. K.
- HENZE, W., Jr., *see* Hagyard, M. J. *et al.*
- HENZE, W., Jr., *see* Krall, K. R. *et al.*
- HENZE, W., *see* Poland, A. I. *et al.*
- HENZE, W., *see* Woodgate, B. E. *et al.*
- HERISTCHI, DJ. and G. TROTTET / Determination of the Upper Cutoff of the 1–2 September 1971 Proton Event from Satellite Measurements **41**, 459 (*Research Note*)
- HERISTCHI, DJ., G. TROTTET, and J. PEREZ-PERAZA / Upper Cutoff of High Energy Solar Protons **49**, 151
- HERISTCHI, DJ., J. P. LEGRAND, and D. PETROU / Balloon Observations of Solar Protons on September 29–30, 1968, over Iceland **18**, 321
- HERISTCHI, D., *see* Henoux, J.-C. *et al.*
- HEROUX, L., M. COHEN, and M. MALINOVSKY / The Interpretation of XUV Rocket Measurements of Intensity Ratios of Solar Spectral Lines of the Lithiumlike Ions O VI, Ne VIII, and Mg X **23**, 369
- HERRING, J. R. H. / A Two-Component Thermal Model of X-Ray Burst Sources **39**, 175
- HERRING, J. R. H. and I. J. D. CRAIG / Two-Component Temperature Analysis of OSO-5 X-Ray Flare Data **28**, 169
- HERRING, J. R. H., *see* Glencross, W. M. *et al.*
- HERSÉ, M. / High Resolution Photographs of the Sun near 200 nm **63**, 35
- HERZOG, A. D., *see* Lawrence, J. K. *et al.*
- HESS, W. N. and R. C. KAIFER / The OSO-1 Solar Neutron Experiment **2**, 202
- HEWITT, R. G. and D. B. MELROSE / The Loss-cone Driven Instability for Langmuir Waves in an Unmagnetized Plasma **96**, 157
- HEYVAERTS, J. / Coronal Electric Currents Produced by Photospheric Motions **38**, 419
- HEYVAERTS, J. and E. R. PRIEST / Thermal Evolution of Current Sheets and Flash Phase of Solar Flares **47**, 223
- HEYVAERTS, J., E. R. PRIEST, and D. M. RUST / An Emerging Flux Model for Solar Flares **53**, 255
- HEYVAERTS, J., *see* Caroubalos, C. *et al.*
- HEYVAERTS, J., *see* Mercier, C.
- HEYVAERTS, J., *see* Priest, E. R.
- HIEI, E. / A Continuous Spectrum of a White-Light Flare **80**, 113
- HIEI, Eijiro and James E. FALLER / Emission Gradients in the Continuum at the Sun's Limb **3**, 513
- HIEI, E. and K. G. WIDING / A Single Loop of 21 January 1974 Flare **61**, 407
- HIEI, E., T. OKAMOTO, and K. TANAKA / Observation of the Flare of 12 June 1982 by Norikura Coronagraph and HINOTORI **86**, 185
- HIGMAN, J., *see* Mayfield, E. B. *et al.*
- HILDEBRANDT, J., *see* Akhmedov, Sh. B. *et al.*
- HILDEBRANDT, J., *see* Böhme, A. *et al.*
- HILDNER, E. / The Formation of Solar Quiescent Prominences by Condensation **35**, 123
- HILDNER, E. and W. C. LIVINGSTON / Evidence for Downflow Following a Coronal Transient? **42**, 391 (*Research Note*)
- HILDNER, E., J. T. GOSLING, R. M. MACQUEEN, R. H. MUNRO, A. I. POLAND, and C. L. ROSS / The Large Coronal Transient of 10 June 1973. I: Observational Description **42**, 163
- HILDNER, E., J. T. GOSLING, R. T. HANSEN, and J. D. BOHLIN / The Sources of Material Comprising a Mass Ejection Coronal Transient **45**, 363
- HILDNER, E., J. T. GOSLING, R. M. MACQUEEN, R. H. MUNRO, A. I. POLAND, and C. L. ROSS / Frequency of Coronal Transients and Solar Activity **48**, 127
- HILDNER, E., *see* Gosling, J. T. *et al.*
- HILDNER, E., *see* Gosling, J. T. *et al.*
- HILDNER, E., *see* Jackson, B. V.
- HILDNER, E., *see* Kahler, S. W. *et al.*
- HILDNER, E., *see* MacQueen, R. M. *et al.*
- HILDNER, E., *see* Munro, R. H. *et al.*
- HILDNER, E., *see* Rust, D. M.
- HILDNER, E., *see* Schmahl, E.
- HILDNER, E., *see* Wilson, R. M.
- HILL, E. R., *see* Sheridan, K. V. *et al.*
- HILL, F. and G. NEWKIRK, JR. / On the Expected Performance of a Solar Oscillation Network **95**, 201
- HILL, F., J. TOOMRE, and L. J. NOVEMBER / Variability in the Power Spectrum of Solar Five-Minute Oscillations **82**, 411 (*Invited Review*)
- HILL, H. A., R. J. BOS, and T. P. CAUDELL / On the Origin of Oscillations in a Solar Diameter Observed through the Earth's Atmosphere: a Terrestrial Atmospheric or a Solar Phenomenon **82**, 129
- HILL, H. A., *see* Bos, R. J.
- HILL, H. A., *see* Stebbins, R. T. *et al.*
- HILLMAN, J. J., *see* Deming, D. *et al.*
- HILL, R. C., II, *see* Fisher, R. R.
- HINATA, S. / Plasma Flow around Coronal Loops **80**, 173

- HINATA, S. / Heating of Chromospheric Magnetic Features by Direct Current Dissipation **87**, 95
- HINKLE, K. H., *see* Edmonds, F. N.
- HINOTORI GROUP, *see* Kanno, M. *et al.*
- HINTEREGGER, H. E. and L. A. HALL / Solar Extreme Ultraviolet Emissions in the Range 260-1300 Å observed from OSO-III **6**, 175
- HIRASIMA, Y., *see* Yoshimori, M. *et al.*
- HIRAYAMA, T. / Spectral Analysis of Four Quiescent Prominences Observed at the Peruvian Eclipse **17**, 50
- HIRAYAMA, T. / The Abundance of Helium in Prominences and in the Chromosphere **19**, 384
- HIRAYAMA, T. / Ionized Helium in Prominences and in the Chromosphere **24**, 310
- HIRAYAMA, T. / Theoretical Model of Flares and Prominences. I: Evaporating Flare Model **34**, 323
- HIRAYAMA, T. / Modern Observations of Solar Prominences **100**, 415 (*Invited Review*)
- HIRAYAMA, T. and F. MORIYAMA / Center to Limb Variation of the Intensity of the Photospheric Faculae **63**, 251
- HIRAYAMA, T. and M. IRIE / Line Width Observation of He II 4686 Å and He I 4713 Å in the Chromosphere **90**, 291
- HIRAYAMA, T. and T. OKAMOTO / Preliminary Observation of Missing Energy Flux of Sunspot **73**, 37
- HIRAYAMA, T., S. HAMANA, and K. MIZUGAKI / Precise Wideband Photometry of Photospheric Faculae with an Emphasis on the Disk Center **99**, 43
- HIRAYAMA, T., K. TANAKA, T. WATANABE, K. AKITA, T. SAKURAI, and K. NISHI / Rocket Observation of the EUV Images of a Solar Flare and Active Regions **95**, 281
- HIRAYAMA, T., *see* Worden, S. P. *et al.*
- HIRSHBERG, J., J. R. ASBRIDGE, and D. E. ROBBINS / The Helium-Enriched Interplanetary Plasma from the Proton Flares of August-September, 1966 **18**, 313
- HIRSHBERG, J., S. J. BAME, and D. E. ROBBINS / Solar Flares and Solar Wind Helium Enrichments: July 1965-July 1967 **23**, 467
- HIRSCHBERG, J. G., A. WOUTERS, and L. HAZELTON, Jr. / Interferometric Studies of Spectral Lines in the Solar Corona **21**, 448
- HIRTH, W., *see* Butz, M. *et al.*
- HIRTH, W., *see* Felli, M. *et al.*
- HIRTH, W., *see* Fürst, E.
- HIRTH, W., *see* Fürst, E. *et al.*
- HIRTH, W., *see* Lantos, P. *et al.*
- HIRTH, W., *see* Švestka, Z. *et al.*
- HIRT, P., *see* Geiss, J. *et al.*
- HOANG, S., *see* Steinberg, J. L. *et al.*
- HOBBS, R. W., S. D. JORDAN, W. J. WEBSTER, JR., S. P. MARAN, and H. M. CAULK / 1.0 Arc Second Structure on the Sun at 3.71 cm Wavelength **36**, 369 (*Research Note*)
- HODGE, P. E., *see* Teske, R. G. *et al.*
- HÖGBOM, J. A., *see* Fredga, K.
- HOHENKERK, C. Y., *see* Yallop, B. D.
- HÖHN, D. H., *see* Bräuninger, H. *et al.*
- HOLLWEG, J. V. / Alfvén Waves in the Solar Atmosphere **56**, 305
- HOLLWEG, J. V. / A New Resonance in the Solar Atmosphere. I: Theory **62**, 227
- HOLLWEG, J. V. / Alfvén Waves in the Solar Atmosphere. II: Open and Closed Magnetic Flux Tubes **70**, 25
- HOLLWEG, J. V. / Alfvénic Resonant Cavities in the Solar Atmosphere: Simple Aspects **91**, 269
- HOLLWEG, J. V., S. JACKSON, and D. GALLOWAY / Alfvén Waves in the Solar Atmosphere. III: Nonlinear Waves on Open Flux Tubes **75**, 35
- HOLLWEG, J. V., *see* Nye, A. H.
- HOLT, S. S., *see* Simnett, G. M.
- HOLT, Stephen S. and Reuven RAMATY / Microwave and Hard X-Ray Bursts from Solar Flares **8**, 119
- HOLWEGER, H. / The Solar Abundance of Calcium and Collision Broadening of Ca I- and Ca II Fraunhofer Lines by Hydrogen **25**, 14
- HOLWEGER, H. / Microturbulence and the Effect of Departures from LTE on Photospheric Iron Lines **30**, 35
- HOLWEGER, H. and E. A. MÜLLER / The Photospheric Barium Spectrum: Solar Abundance and Collision Broadening of Ba II Lines by Hydrogen **39**, 19
- HOLWEGER, H. and L. TESTERMAN / Five-Minute Oscillations of Solar Equivalent Widths **43**, 271
- HOLWEGER, H. and K. WERNER / The Solar Abundance of Tungsten **81**, 3
- HOLWEGER, Hartmut, *see* Müller, Edith A.
- HOLZER, T. E., *see* Habbal, S. R. *et al.*
- HOLZER, T. E., *see* Joselyn, J. *et al.*
- HOLZER, T. E., *see* Kopp, R. A.
- HOLZER, TH. E., *see* Leer, E.
- HONES, E. W., Jr. / Observations in the Earth's Magnetotail Relating to Magnetic Merging (*Invited paper*) **47**, 101
- HONG SIK YUN / A New Empirical Model of a Sunspot Umbra **16**, 379
- HONG SIK YUN / A Magnetostatic Sunspot Model with 'Twisted' Field **16**, 398
- HONG SIK YUN / Magnetic Fields in Umbrae and Atmospheres under 'Similarity' Configuration **22**, 137 (*Research Note*)

- HONG SIK YUN, *see* Wyller, A. A.
- HOOD, A. W. / Magnetic Stability of Coronal Arcades Relevant to Two-Ribbon Flares **87**, 279
- HOOD, A. W. / The Stability of Magnetohydrostatic Atmospheres **89**, 235
- HOOD, A. W. and E. R. PRIEST / Kink Instability of Solar Coronal Loops as the Cause of Solar Flares **64**, 303
- HOOD, A. W. and E. R. PRIEST / Magnetic Instability of Coronal Arcades as the Origin of Two-Ribbon Flares **66**, 113
- HOOD, A. W. and E. R. PRIEST / Thermal Nonequilibrium: A Trigger for Solar Flares? **73**, 289
- HOOD, A. W., *see* Melville, J. P. *et al.*
- HOOD, A. W., *see* Melville, J. P. *et al.*
- HOOVER, R. B., *see* Sheeley, N. R. *et al.*
- HORAN, D. M. / Electron Temperature and Emission Measure Variations during Solar X-Ray Flares **21**, 188
- HORAN, D. M. and R. W. KREPLIN / Simultaneous Measurements of EUV and Soft X-Ray Solar Flare Emission **74**, 265
- HORAN, D. M., R. W. KREPLIN, and K. P. DERE / Direct Measurements of the Gradual Extreme Ultraviolet Emission from Large Solar Flares **85**, 303
- HORAN, D. M., *see* Dere, K. P. *et al.*
- HORAN, D. M., *see* Kahler, S. W. *et al.*
- HORSTMAN, H., *see* Santangelo, N. *et al.*
- HORSTMAN-MORETTI, E., *see* Santangelo, N. *et al.*
- HORTON, B. H., *see* Carver, J. H. *et al.*
- HOSINSKY, G., *see* Gimse, O.
- HOUSE, L. L. / Coronal Emission Line Polarization **23**, 103
- HOUSE, L. L. and R. N. SMARTT / Vector Magnetic Fields in Prominences. I: Preliminary Discussion of Polarimeter Observations in He I D₃ **80**, 53
- HOUSE, L. L., TH. G. BAUR, and H. K. HULL / Initial Operation of a Scanning Stokes Polarimeter **45**, 495
- HOUSE, L. L., *see* Auer, L. H.
- HOUSE, Lewis L., *see* Avery, Lorne W.
- HOUSE, L. L., *see* Baur, T. G. *et al.*
- HOUSE, L. L., *see* Gergely, T. E. *et al.*
- HOUSE, L. L., *see* Gurman, J. B.
- HOUSE, L. L., *see* Querfeld, C. W. *et al.*
- HOUSE, Lewis L., *see* Wagner, William J.
- HOUSE, L. L., *see* Wagner, W. J. *et al.*
- HOUSE, L., *see* MacQueen, R. M. *et al.*
- HOUTGAST, J. / The High-Dispersion Continuous Ultraviolet Solar Spectrum and the Balmer Jump **3**, 47
- HOUTGAST, J. / Description of an Observational Method for Determining Absolute Intensities in the Solar Spectrum between λ 2962 Å and λ 4087 Å **15**, 273
- HOUTGAST, J. and A. VAN SLUITERS / The Representation of the Semi-Annual Variation of the Geomagnetic Activity by an Annual Sine Wave **31**, 513
- HOUTGAST, J., O. NAMBA, R. J. RUTTEN, and J. W. WIJBENGA / Spectral Lines from Photosphere to Chromosphere, Observed during the March 1970 Eclipse; a First Comparison with Theory **21**, 281
- HOUTGAST, J., *see* Burger, M.
- HOUTGAST, J., *see* Fokker, A. D. *et al.*
- HOUTGAST, J., *see* van Dessel, E. L. *et al.*
- HOVESTADT, D., *see* Armstrong, T. P. *et al.*
- HOVESTADT, D., *see* Scholer, M. *et al.*
- HOWALD, A. M., *see* Snider, J. L. *et al.*
- HOWARD, J. C. / Some New DyII Identifications in the Solar Spectrum **24**, 32
- HOWARD, Robert / Velocity Fields in the Solar Atmosphere **2**, 3
- HOWARD, R. / Reply to K. R. Sivaraman **6**, 154 (*Research Note*)
- HOWARD, R. / Solar Research at the Mount Wilson and Palomar Observatories **7**, 153 (*Report from Solar Institute*)
- HOWARD, R. / The Large-Scale Velocity Fields of the Solar Atmosphere **16**, 21
- HOWARD, R. / The Velocity Fields in Active Regions **24**, 123
- HOWARD, R. / Polar Magnetic Fields of the Sun: 1960–1971 **25**, 5
- HOWARD, R. / Studies of Solar Magnetic Fields. II: The Magnetic Fluxes **38**, 59
- HOWARD, R. / Studies of Solar Magnetic Fields. I: The Average Field Strengths **38**, 283
- HOWARD, R. / Studies of Solar Magnetic Fields. III: The East-West Orientation of Field Lines **39**, 275
- HOWARD, R. / Studies of Solar Magnetic Fields. IV: The Effects of Angular Resolution **47**, 575
- HOWARD, R. / The Mount Wilson Solar Magnetograph: Scanning and Data System **48**, 411
- HOWARD, R. / Studies of Solar Magnetic Fields. V: The True Average Field Strengths near the Poles **52**, 243
- HOWARD, R. / Magnetic Field Rotation at High Solar Latitudes **59**, 243
- HOWARD, R. / Torsional Oscillations of the Sun (*Invited Review, Abstract*) **82**, 437
- HOWARD, R. / Eight Decades of Solar Research at Mount Wilson **100**, 171 (*Invited Review*)
- HOWARD, Robert and A. BHATNAGAR / On the Spectrum of Granular and Intergranular Regions **10**, 245

- HOWARD, R. and J. HARVEY / Spectroscopic Determinations of Solar Rotation **12**, 23
- HOWARD, R. and S. J. EDBERG / On the Random Nature of the Eruption of Magnetic Flux at the Solar Surface **28**, 73 (*Research Note*)
- HOWARD, R. A. and M. J. KOOMEN / Observation of Sectorized Structure in the Outer Solar Corona: Correlation with Interplanetary Magnetic Field **37**, 469
- HOWARD, R. and B. J. LABONTE / Surface Magnetic Fields during the Solar Activity Cycle **74**, 131
- HOWARD, Robert and William C. LIVINGSTON / Some Observations Bearing on the Problem of the Short-Period Oscillations **3**, 434
- HOWARD, R. and J. O. STENFLO / On the Filamentary Nature of Solar Magnetic Fields **22**, 402
- HOWARD, R. and Z. ŠVESTKA / Development of a Complex of Activity in the Solar Corona **54**, 65
- HOWARD, R. and Z. ŠVESTKA / On the Outburst of Flare Activity of 26 November, 1973 **71**, 49
- HOWARD, R., J. M. ADKINS, J. E. BOYDEN, T. A. CRAGG, T. S. GREGORY, B. J. LABONTE, S. P. PADILLA, and L. WEBSTER / Solar Rotation Results at Mount Wilson. IV: Results **83**, 321
- HOWARD, R., J. E. BOYDEN, and B. J. LABONTE / Solar Rotation Measurements at Mount Wilson. I: Analysis and Instrumental Effects **66**, 167
- HOWARD, R., J. E. BOYDEN, D. H. BRUNING, M. K. CLARK, H. W. CRIST, and B. J. LABONTE / The Mount Wilson Magnetograph **87**, 195 (*Report from Solar Institute*)
- HOWARD, R., L. FRITZOVÁ-ŠVESTKOVÁ, and Z. ŠVESTKA / The Birthplaces of Active Regions and X-Ray Bright Points **63**, 105
- HOWARD, ROBERT and ZDENEK ŠVESTKA / Development of a Complex of Activity in the Solar Corona (*Errata*) **56**, 471 (**54**, 65)
- HOWARD, Robert, Andrew S. TANENBAUM, and John M. WILCOX / A New Method of Magnetograph Observation of the Photospheric Brightness, Velocity, and Magnetic Fields **4**, 286
- HOWARD, R., *see* Altschuler, M. D. *et al.*
- HOWARD, R., *see* Altschuler, M. D. *et al.*
- HOWARD, Robert, *see* Bumba, V.
- HOWARD, R., *see* Gergely, T. E. *et al.*
- HOWARD, R., *see* Gilman, P. A.
- HOWARD, R., *see* Harvey, J.
- HOWARD, R., *see* Koomen, M. *et al.*
- HOWARD, R., *see* LaBonte, B. J.
- HOWARD, R., *see* LaBonte, B. J.
- HOWARD, R., *see* LaBonte, B. J.
- HOWARD, R., *see* Schatten, K. H. *et al.*
- HOWARD, R., *see* Scherrer, Ph. H. *et al.*
- HOWARD, R., *see* Scherrer, P. H. *et al.*
- HOWARD, R., *see* Snodgrass, H. B.
- HOWARD, R., *see* Snodgrass, H. B. *et al.*
- HOWARD, R., *see* Svalgaard, L. *et al.*
- HOWARD, R., *see* Švestka, Z.
- HOWARD, R., *see* Švestka, Z. *et al.*
- HOWARD, R., *see* Švestka, Z. *et al.*
- HOWARD, Robert, *see* Tanenbaum, A. S.
- HOWARD, R. A., *see* Bird, M. K. *et al.*
- HOWARD, R. A., *see* Cliver, E. W. *et al.*
- HOWARD, R. A., *see* Fisher, R. R. *et al.*
- HOWARD, R. A., *see* Kahler, S. *et al.*
- HOWARD, R. A., *see* Koomen, M. J. *et al.*
- HOWARD, R. A., *see* Poland, A. I. *et al.*
- HOWARD, R. A., *see* Sheeley, N. R., Jr.
- HOWARD, R. A., *see* Stewart, R. T. *et al.*
- HOWARD, R. A., *see* Wagner, W. J. *et al.*
- HOWARD, R. F., *see* Rhodes, E. J., Jr. *et al.*
- HOWARD, R., *see* Tang, F. *et al.*
- HOWARD, R., *see* Topka, K. *et al.*
- HOWARD, R., *see* Wallenhorst, S. G.
- HOWARD, R., *see* Wilcox, J. M.
- HOWARD, R., *see* Wilcox, J. M. *et al.*
- HOWARD, Robert, *see* Wilcox, John M.
- HOYNG, PETER, JOSHUA W. KNIGHT, and DANIEL S. SPICER / Diagnostics of Solar Flare Hard X-Ray Sources (*Errata*) **59**, 407 (**58**, 139)
- HOYNG, P., J. C. BROWN, and H. F. VAN BEEK / High Time Resolution Analysis of Solar Hard X-Ray Flares Observed on Board the ESRO TD-1A Satellite **48**, 197
- HOYNG, P., J. W. KNIGHT, and D. S. SPICER / Diagnostics of Solar Flare Hard X-Ray Sources **58**, 139
- HOYNG, P., *see* Böhme, A. *et al.*
- HOYNG, P., *see* Duijveman, A.
- HOYNG, P., *see* Duijveman, A. *et al.*
- HOYNG, P., *see* Harrison, R. A. *et al.*
- HOYNG, P., *see* Martens, P. C. H. *et al.*
- HOYNG, P., *see* Rutten, R. J. *et al.*
- HOYNG, P., *see* Švestka, Z. *et al.*
- HOYNG, P., *see* Švestka, Z. *et al.*
- HOYNG, P., *see* Van Beek, H. F. *et al.*
- HSU, J.-C., *see* Edmonds, F. N., Jr.
- HU, W. R., Y. Q. HU, and B. C. LOW / Non-Axisymmetric Magnetostatic Equilibrium. I: a Perturbation Theory **83**, 195
- HU, Y. Q. and B. C. LOW / The Energy of Electric Current Sheets. I: Models with Moving Magnetic Dipoles **81**, 107
- HU, Y. Q., *see* Hu, W. R. *et al.*
- HU, Y. Q., *see* Low, B. C.
- HU, Y. Q., *see* Wu, S. T. *et al.*
- HUBER, M. C. / The ESA Project for a Grazing Incidence Solar Telescope (GRIST) **74**, 539

- HUBER, M. C. E., *see* Schmahl, E. J. *et al.*
 HUBER, M. C. E., *see* Withbroe, G. L. *et al.*
 HUBER, M. C. E., *see* Wood, A. T. *et al.*
 HUDSON, H. S. / Thick-Target Processes and White-Light Flares **24**, 414
 HUDSON, H. S. / The Solar-Flare Infrared Continuum: Observational Techniques and Upper Limits **45**, 69
 HUDSON, H. S. / Effects of Electrons versus Protons in the Solar Atmosphere **53**, 295
 HUDSON, H. S. / Threshold Effect in Second-Stage Acceleration **57**, 237 (*Research Note*)
 HUDSON, H. S. / Energetic Ions in Solar γ -Ray Flares **100**, 515 (*Invited Review*)
 HUDSON, H. S. and B. N. DWIVEDI / Gamma Radiation and Photospheric White-Light Flare Continuum **76**, 45
 HUDSON, H. S. and K. OHKI / Soft X-Ray and Microwave Observations of Hot Regions in Solar Flares **23**, 155
 HUDSON, H. S. and R. C. WILLSON / Upper Limits on the Total Radiant Energy of Solar Flares **86**, 123
 HUDSON, H. S., R. C. CANFIELD, and S. R. KANE / Indirect Estimation of Energy Disposition by Non-Thermal Electrons in Solar Flares **60**, 137
 HUDSON, H. S., R. P. LIN, and R. T. STEWART / Second-Stage Acceleration in a Limb-Occulted Flare **75**, 245
 HUDSON, HUGH S., LAURENCE E. PETERSON, and DANIEL A. SCHWARTZ / Solar and Cosmic X-Rays above 7.7 keV **6**, 205
 HUDSON, H. S., S. SILVA, M. WOODARD, and R. C. WILLSON / The Effects of Sunspots on Solar Irradiance **76**, 211
 HUDSON, H. S., *see* Datlowe, D. W. *et al.*
 HUDSON, H. S., *see* Dwivedi, B. N. *et al.*
 HUDSON, H. S., *see* Kane, S. R.
 HUDSON, H. S., *see* Lin, R. P.
 HUDSON, H. S., *see* Lin, R. P.
 HUDSON, H. S., *see* Ohki, K.
 HUDSON, H., *see* Uchida, Y.
 HUDSON, H., *see* Woodard, M.
 HUDSON, H., *see* Zirin, H.
 HUGHES, J. P., *see* Lemen, J. R. *et al.*
 HUGHES, V. A. and M. J. L. KESTEVEN / Periodicities in the $\lambda 10$ cm Solar Flux **71**, 259
 HULL, H. K., *see* Baur, T. G. *et al.*
 HULL, H. K., *see* House, L. L. *et al.*
 HULTQVIST, L. / On the Possibility of Detecting Abundance Inhomogeneities Resulting from Spallation Reactions in the Solar Photosphere **34**, 25
 HULTQVIST, L. / The Production of Lithium in the Solar Chromosphere and Photosphere during White Light Flares **52**, 101
 HUNDHAUSEN, A. J., *see* Zweibel, E. G.
 HURFORD, G. J., R. B. READ, and H. ZIRIN / A Frequency-Agile Interferometer for Solar Microwave Spectroscopy **94**, 413
 HURFORD, G. J., *see* Dulk, G. A. *et al.*
 HURFORD, S. R., *see* De Pan, L. *et al.*
 HURLEY, K. and G. DUPRAT / A Hard X-Ray Observation of a Solar Flare with 100 ms Time Resolution **52**, 107
 HURLEY, K., M. NIEL, R. TALON, I. V. ESTULINE, and V. CH. DOLIDZE / Observations of Fine Time Structures in Solar Flare Hard X-Ray Bursts **86**, 367
 HURLEY, K., *see* Chambon, G. *et al.*
 HURST, M. D., *see* Cliver, E. W. *et al.*
 HUTCHEON, R. J., J. P. PYE, and K. D. EVANS / The Spectrum of Ni XIX in the Solar Corona **46**, 171
 HUTCHEON, R. J., *see* Evans, K. D. *et al.*
 HYDER, CHARLES L. / A Phenomenological Model for *Disparitions Brusques* Followed by Flare-like Chromospheric Brightenings (*Errata*) **2**, 505; (*Errata*) **3**, 624 (I: The Model, its Consequences, and Observations in Quiet Solar Regions **2**, 49; II: Observations in Active Regions **2**, 49)
 HYDER, C. L. / A Phenomenological Model for *Disparitions Brusques* followed by Flare-like Chromospheric Brightenings. I: The Model, Its Consequences, and Observations in Quiet Solar Regions **2**, 49
 HYDER, C. L. / A Phenomenological Model for *Disparitions Brusques* followed by Flare-like Chromospheric Brightenings. II: Observations in Active Regions **2**, 267
 HYDER, C. L. / Polarized Light, Magnetographs, and Solar Magnetic Fields **5**, 29
 HYDER, C. L. / Transits of Mercury and the Sizes of Small Solar Features **6**, 482 (*Research Note*)
 HYDER, C. L. / Strong Coronal Shocks and 'Thermal' Solar X-Ray Bursts **14**, 196
 HYDER, C. L. and B. W. LITES / $H\alpha$ Doppler Brightening and Lyman- α Doppler Dimming in Moving $H\alpha$ Prominences **14**, 147
 HYDER, C. L., *see* Hagyard, M. J. *et al.*
 HYDER, C. L., *see* Henze, W., Jr. *et al.*
 HYDER, C. L., *see* Saito, Kuniji
 HYDER, C. L., *see* Woodgate, B. E. *et al.*
 HYND, R. J., *see* Balogh, A. *et al.*
 IACOMO, P., *see* Kaufmann, P. *et al.*
 IBÁÑEZ, A. L., *see* Kaufmann, P. *et al.*
 IBBETSON, P. A., *see* Petford, A. D. *et al.*
 IBEN, I., JR. / An Essay on Stellar Oscillations and Evolution **82**, 457
 ICHIMOTO, K. and H. KUROKAWA / $H\alpha$ Red

- Asymmetry of Solar Flares **93**, 105
- IFEDILI, S. O. / A Search for Solar Neutrons during Solar Flares **39**, 233
- IFEDILI, S. O. / Measurement of the Solar Diurnal Anisotropy of the Cosmic-Ray Albedo Neutron Flux **76**, 393
- IFEDILI, S. O., *see* Lockwood, J. A. *et al.*
- ILLING, RAINER M. E., DONALD A. LANDMAN, and DONALD L. MICKEY / Observations of Helium and Hydrogen Emission in Quiescent Prominences (*Errata*) **58**, 211 (**45**, 339)
- ILLING, R., *see* Gergely, T. E. *et al.*
- ILLING, R. M. E., *see* Wagner, W. J. *et al.*
- INGERSOLL, A. P. and G. A. CHAPMAN / Temperature Variation with Latitude in the Upper Solar Photosphere: Relevance to Solar Oblateness Measurements and Facular Models **42**, 279
- INGHAM, W., *see* Zirin, H.
- IONSON, J. A. / The Heating of Coronae **100**, 289 (*Invited Review*)
- IOSHPA, B. A., V. N. OBRIDKO, and B. D. SHELTING / Short-Periodic Oscillations of the Magnetic Field of the Sun as a Star **29**, 385
- IOSHPA, B., *see* Mogilevsky, E. *et al.*
- IRIE, M., *see* Hirayama, T.
- ISAAK, G. R. / Solar Oscillations: Past, Present, and Future **74**, 43
- ISAAK, G. R. / A New Method for Determining the Helium Abundance in the Solar Atmosphere (*Invited Review*) **82**, 205
- ISAAK, G. R. / Is There an Oblique Magnetic Rotator Inside the Sun? (*Invited Review, Abstract*) **82**, 235
- ISAAK, G. R., *see* Brookes, J. R. *et al.*
- ISAAK, G. R., *see* Claverie, A. *et al.*
- ISAAK, G. R., *see* Claverie, A. *et al.*
- ISENBERG, P. A. / Umbral Boundaries, Convection, and the Depth of Sunspots **50**, 49
- IUCCI, N., M. PARISI, and G. VILLORESI / Short and Long-Term Variations in the Cosmic Ray Intensity and their Connection with the 5303 Å Coronal Line Intensity in Solar Cycle No. 20 **33**, 515
- IVANOV, E. V. / Long-Term Quasi-Periodic Oscillations of EUV-Flux on the Sun **89**, 261
- IVANOV, K. G. and A. F. HARSHILADZE / Dynamics of Hydromagnetic Clouds from Powerful Solar Flares **92**, 351
- IVANOV, K. G. and A. F. HARSHILADZE / Interplanetary Hydromagnetic Clouds as Flare-Generated Spheromaks **98**, 379
- IVANOV, K. G., L. V. EVDOKIMOVA, and N. V. MIKERINA / Geometrical Relationship of Flare-Generated Solar Wind Structures to the Magnetic Axes of Bipolar Sunspot Groups Adjacent to Their Originating Solar Flares **79**, 379
- IVANOV, L. N. and YU. V. PLATOV / Kinematic Model of Loop Prominences Formation **54**, 3
- IVANOV, V. D., *see* Tindo, I. P. *et al.*
- IVANOV, V. D., *see* Tindo, I. P. *et al.*
- JACKSON, B. V. / Forerunners: Early Coronal Manifestations of Solar Mass Ejection Events **73**, 133
- JACKSON, B. V. / Helios Observations of the Earthward-Directed Mass Ejection of 27 November, 1979 **95**, 363
- JACKSON, B. V. / Imaging of Coronal Mass Ejections by the Helios Spacecraft **100**, 562 (*Invited Review*)
- JACKSON, B. V. and E. HILDNER / Forerunners: Outer Rims of Solar Coronal Transients **60**, 15
- JACKSON, B. V. and R. H. LEVINE / A Comparison of Type III Metric Radio Bursts and Global Solar Potential Field Models **73**, 183
- JACKSON, B. V., *see* Webb, D. F.
- JACKSON, P. D., *see* Kundu, M. R. *et al.*
- JACKSON, S., *see* Hollweg, J. V. *et al.*
- JACOBS, A. / On the Temperature Dependence of the Ratio of O VIII Ly- α and Ly- β Radiation from the Solar Corona **5**, 359 (*Research Note*)
- JACOBS, A. / An Empirical Interpolation Formula for the Ionization Cross-Sections of Hydrogen Like Ions **6**, 410 (*Research Note*)
- JACQUES, S., *see* Dulk, G. A. *et al.*
- JÄGER, F. W. / Instrumental Polarization Concerning Magnetographic Measurements **27**, 48
- JÄGER, F. W. / Instrumental Polarization Concerning Magnetographic Measurements, II **39**, 499
- JÄGER, F. W., *see* Daene, H.
- JAIN, N. K. and U. NARAIN / On Dielectronic Recombination Coefficients of the H, He and Ne Sequences **50**, 361 (*Research Note*)
- JAKIMIEC, J., V. V. KORNEEV, V. V. KRUTOV, I. A. ZHITNIK, S. PLOCIENAK, B. SYLWESTER, and J. SYLWESTER / Analysis of the Intensities and Profiles of the Spectral Line Mg XII 8.42 Å in the Solar X-Ray Spectrum **44**, 391
- JAMES, J. C. / Some Observed Characteristics of Solar Radar Echoes and Their Implications **12**, 143
- JANICKE, L. / Resistive Tearing Mode in Coronal Neutral Sheets **76**, 29
- JANICKE, L., *see* Schindler, K. *et al.*
- JANSENS, T. J. / Long Term Observations of the H α Chromospheric Network **11**, 222
- JANSENS, T. J. / A Non Imaging Approach to Solar Oblateness Measurements **25**, 237

- ANSSSENS, T. J. / Flares, Magnetic Configurations, and Magnetic Energy Release **27**, 149
- ANSSSENS, T. J. and K. P. WHITE, III / Description of Mass Motions and Brightenings in a Class 2b Flare, August 8, 1968 **11**, 299
- ANSSSENS, T. J., K. P. WHITE, III, and R. M. BROUSSARD / Quasi-Periodic Structure in Solar Microwave Bursts **31**, 207
- ANSSSENS, T. J., *see* White, III, K. P.
- ARDIM, J. O. D., *see* Rao, K. R. *et al.*
- ARRETT, A. H., *see* Lategan, A. H.
- AYANTHAN, R. / Electric Current in a Sunspot **12**, 104 (*Research Note*)
- AYANTHAN, R. / The Herschel Effect and Solar Photography **12**, 163
- AYANTHI, U. B., *see* Rao, K. R. *et al.*
- EBSEN, D. E. and W. E. MITCHELL, JR. / The Relationship between Solar Activity and the H and K Line Cores in Integrated Sunlight **57**, 309
- JEFFERIES, J. T. / The Solar Observatory of the University of Hawaii **2**, 369 (*Report from Solar Institute*)
- JEFFERIES, J. T., F. Q. ORRALL, and J. B. ZIRKER / The Interpretation of Total Line Intensities from Optically Thin Gases. I: A General Method **22**, 307
- JEFFERIES, J. T., F. Q. ORRALL, and J. B. ZIRKER / The Interpretation of Total Line Intensities from Optically Thin Gases. II: The Coronal Forbidden Lines **22**, 317
- JEFFERIES, J. T., F. Q. ORRALL, and J. B. ZIRKER / The Interpretation of Total Line Intensities from Optically Thin Gases. III: Application to Coronal Forbidden Line Spectra **22**, 327
- JEFFERIES, J. T., F. Q. ORRALL, and J. B. ZIRKER / The Spectrum of the Inner Corona Observed during the Total Solar Eclipse of 30 May 1965 **16**, 103
- JEFFERIES, J. T., *see* Finn, G. D.
- JENKINS, R. W., *see* Lockwood, J. A. *et al.*
- JENSEN, E. / Oslo Solar Observatory **4**, 114 (*Report from Solar Institute*)
- JENSEN, E. / Velocity Fields in Quiescent Prominences **77**, 109
- JENSEN, E. / Alfvén Waves and Turbulence in Quiescent Prominences **89**, 275
- JENSEN, E., R. BRAHDE and P. OFSTAD / The Wilson Effect and the Transparency of Sunspot Models **9**, 397
- JENSEN, E., *see* Engvold, O.
- JENSEN, E., *see* Engvold, O. *et al.*
- JIA-LONG, W., *see* Loughhead, R. E. *et al.*
- JIE-HAI, JIN, *see* Shi-Hui Ye.
- JOCKERS, Klaus / On the Stability of the Solar Wind **3**, 603
- JOCKERS, K. / Reconnection, Caused by Non-existence of Force-Free Equilibria, as a Mechanism for Solar Flares **47**, 221 (*abstract only*)
- JOCKERS, K. / Upper Limits in the Toroidal Component of Force-Free Magnetic Fields in Stellar Atmospheres in the Context of Solar and Stellar Flares **50**, 405
- JOCKERS, K. / Bifurcation of Force-Free Solar Magnetic Fields: a Numerical Approach **56**, 37
- JOCKERS, K. and O. ENGVOLD / Prominence Eruption Accompanied by Twist Readjustment **44**, 429
- JOENSEN, P., W. H. MCCUTCHEON, and W. L. H. SHUTER / A Method for Investigating the Brightness Distribution near the Solar Limb at Millimeter Wavelengths **39**, 309
- JOHNSON, H. Kevin, *see* Clark, Jr., Alfred
- JOHNSON, Hollis R., *see* Beebe, Herbert A.
- JOHNSON, H. R., *see* Beebe, H. A.
- JOHNSON, H. R., *see* Ramsey, L. W.
- JOHNSON, W. N., *see* Forrester, D. J. *et al.*
- JOKI, E. G., *see* Acton, L. W. *et al.*
- JONES, B. B., *see* Acton, L. W. *et al.*
- JONES, B. B., *see* Boland, B. C. *et al.*
- JONES, B. B., *see* Freeman, F. F.
- JONES, Douglas E., *see* Winters, John B.
- JONES, H. P. / Scaling-Law Equilibria for Calcium in Canopy-Type Models of the Solar Chromosphere **79**, 279
- JONES, H. P. and D. R. BROWN / A Possible Edge Effect in Enhanced Network **52**, 337
- JONES, H. P. and R. G. GIOVANELLI / Magnetograph Response to Canopy-Type Fields **79**, 247
- JONES, H. P. and R. G. GIOVANELLI / Magnetic Canopies in Unipolar Regions **87**, 37
- JONES, H. P., *see* Giovanelli, R. G.
- JONES, R. A. and W. A. RENSE / Mass Motion in the Solar Chromosphere **15**, 317
- JONES, T. L. J., W. H. PARKINSON, R. J. SPEER, and C. YANG / Eclipse Observations in the Rocket Ultraviolet **21**, 372
- JONES, Walter L. / Non-Divergent Oscillations in the Solar Atmosphere **7**, 204
- JORÁS, P. B., *see* Albrechtsen, F. *et al.*
- JORDAN, Carole / The Relative Intensities of C1 Lines in the Solar EUV Spectrum **2**, 441
- JORDAN, C. / The Identification of New Forbidden Coronal Lines in the Solar EUV Spectrum **21**, 381
- JORDAN, Carole and S. R. POTTASCH / The Relative Abundance of Silicon and Iron in the Solar Corona **4**, 104 (*Research Note*)
- JORDAN, CAROLE and S. R. POTTASCH / The Relative Abundance of Silicon and Iron in the Solar Corona **4**, 104

- JORDAN, C., *see* MacNeice, P. *et al.*
- JORDAN, S. D. / Further Aspects of Weak Shock Theory Applied To the Solar Chromosphere **30**, 327
- JORDAN, S. D. / Physical Processes Determining the Chromospheric Temperature Distribution **51**, 51
- JORDAN, S. D., *see* Hobbs, R. W. *et al.*
- JOSELYN, J. A., *see* Sanahuja, B. *et al.*
- JOSELYN, J., R. H. MUNRO, and T. E. HOLZER / Mass Flow and the Validity of Ionization Equilibrium on the Sun **64**, 57
- JOSEPH, G., *see* Daniel, R. R.
- JOSHI, G. C. and M. C. PANDE / On the Presence of SH in the Sunspot Spectrum **62**, 69
- JOSHI, G. C., M. C. PANDE, and D. S. SHUKLA / On the Gamma System on Nitric Oxide in Sunspots **58**, 343 (*Research Note*)
- JOSHI, G. C., L. M. PUNETHA, and M. C. PANDE / (A-X) System of SiO in Sunspots **62**, 77
- JOSHI, G. C., L. M. PUNETHA, and M. C. PANDE / On the O₂ Schumann-Runge Band System in Sunspots **63**, 79 (*Research Note*)
- JOSHI, G. C., L. M. PUNETHA, and M. C. PANDE / On the Infrared Opacity of Sunspots **64**, 255
- JOSHI, G. C., *see* Pande, M. C.
- JOUKOFF, A. A., *see* Genesio-Elgarten, V.
- KAASTRA, J., *see* Fárník, F. *et al.*
- KABURAKI, O. and Y. YOSHI / On the Three-Dimensional Structure of the Solar Magnetic Field in Interplanetary Space **64**, 187
- KABURAKI, O., *see* Uchida, Y.
- KAHLER, S. W. / A Comparison of Energetic Storm Protons to Halo Protons **8**, 166
- KAHLER, S. W. / Reply to Discussion by Lanzerotti **11**, 148 (*Research Note*)
- KAHLER, S. W. / The Role of Energetic Electrons in the Correlation of Meter and Decimeter Type III Bursts with 4keV X-Ray Emission **25**, 435
- KAHLER, S. W. / The Possible Role of Energetic Electrons in the Production of Surges **32**, 477
- KAHLER, S. W. / Reply to 'Shock Wave Effects in Solar Cosmic Rays Events' by I. D. Palmer **33**, 239 (*Research Note*)
- KAHLER, S. / Determination of the Energy or Pressure of a Solar X-Ray Structure Using X-Ray Filtergrams from a Single Filter **48**, 255
- KAHLER, S. W. / The Dependence of Solar Flare Energetics on Flare Volumes **59**, 87
- KAHLER, S. W. / Preflare Characteristics of Active Regions Observed in Soft X-Rays **62**, 347
- KAHLER, S. W. / The Development of X-Ray Flare Onsets near Active Region Filaments **71**, 337
- KAHLER, S. W. / Gradual Hard X-Ray Events and Second Phase Particle Acceleration **90**, 133
- KAHLER, S. W. and B. J. BURATTI / Preflare X-Ray Morphology of Active Regions Observed with the AS&E Telescope on Skylab **47**, 157
- KAHLER, S. W. and R. W. KREPLIN / Thermal Runaway as the Solar Flare Trigger Mechanism **14**, 372
- KAHLER, S. and A. S. KRIEGER / A Physical Parameter Method for the Design of Broad Band X-Ray Imaging Systems To Do Coronal Plasma Diagnostics **56**, 351
- KAHLER, S. W., J. M. DAVIS, and J. W. HARVEY / Comparison of Coronal Holes Observed in Soft X-Ray and He I 10830 Å Spectroheliograms **87**, 47
- KAHLER, S. W., G. A. DOSCHEK, J. F. MEEKINS, and D. M. HORAN / Discussion of Paper 'On the Polarization and Anisotropy of Solar X-Radiation during Flares', by G. Elwert and E. Haug **20**, 422 (*Research Note*)
- KAHLER, S. W., E. HILDNER, and M. A. I. VAN HOLLEBEKE / Prompt Solar Proton Events and Coronal Mass Ejections **57**, 429
- KAHLER, S. W., R. D. PETRASSO, and S. R. KANE / The Quantitative Properties of Three Soft X-Ray Flare Kernels Observed with the AS&E X-Ray Telescope on Skylab **50**, 179
- KAHLER, S. W., J. H. PRIMBSCH, and K. A. ANDERSON / Energetic Protons from the Solar Flare of March 24, 1966 **2**, 179
- KAHLER, S. W., N. R. SHEELEY, JR., R. A. HOWARD, M. J. KOOMEN, and D. J. MICHELS / Characteristics of Flares Producing Metric Type II Bursts and Coronal Mass Ejections **93**, 133
- KAHLER, S. W., D. F. WEBB, and R. L. MOORE / X-Ray and H α Observations of a Filament-Disappearance Flare: An Empirical Analysis of the Magnetic Field Configuration **70**, 335
- KAHLER, S. W., D. F. WEBB, J. M. DAVIS, and M. R. KUNDU / The Spatial Distribution of 6 Centimeter Gyroresonance Emission from a Flaring X-Ray Loop **92**, 271
- KAHLER, S. W., *see* Cliver, E. W. *et al.*
- KAHLER, S. W., *see* Dodson, Helen W.
- KAHLER, S. W., *see* Kane, S. R. *et al.*
- KAHLER, S. W., *see* Kundu, M. R. *et al.*
- KAHLER, S. W., *see* Lin, R. P.
- KAHLER, S. W., *see* Pallavicini, R. *et al.*
- KAI, Keizo / Radio Evidence of Directive Shock-Wave Propagation in the Solar Corona **10**, 460
- KAI, K. / Expanding Arch Structure of a Solar Radio Outburst **11**, 310
- KAI, K. / The Structure, Polarization, and Spatial Relationship of Solar Radio Sources of Spectral Types I and III **11**, 456

- KAI, K. / A Model for the Development of a Solar Outburst Based on Observations with the Culgoora Radio Spectrograph and Heliograph **45**, 217
- KAI, K. / Relation between Circular Polarization of Moving Type IV Bursts and Polarity of Photospheric Magnetic Fields **56**, 417
- KAI, K. / A Statistical Study of Moving Type IV Burst Based on Culgoora Radioheliograph Observations **61**, 187
- KAI, K. and K. V. SHERIDAN / Coronal Magnetic Field Structure Derived from Two-Frequency Radioheliograph Observations **35**, 181
- KAI, K. and A. TAKAYANAGI / Interferometer Observation of Pulsating Sources Associated with a Type IV Solar Radio Bursts **29**, 461
- KAI, Keizo, *see* Takakura, Tatsuo
- KAI, K., H. NAKAJIMA, T. KOSUGI, and S. R. KANE / Late Phase Gradual Enhancements in Microwaves and Hard X-Rays of the 6 November, 1980 Flare **86**, 231
- KAI, K., T. KOSUGI, and H. NAKAJIMA / Differences of Observed Characteristics between Impulsive Bursts and Post-Burst Increases **75**, 331
- KAI, K., *see* Kosugi, T. *et al.*
- KAIFER, R. C., *see* Hess, W. N.
- KAISER, M. L. / The Solar Elongation Distribution of Low-Frequency Radio Bursts **45**, 181
- KAKINUMA, Takakiyo, *see* Énomé, Shinzo
- KALAGHAN, P. M. / Solar Limb Brightening at Millimeter Wavelengths **39**, 315
- KALE, D. M., *see* Antia, H. M. *et al.*
- KALET, M. W., *see* Woodgate, B. E. *et al.*
- KALINJAK, A. A. and G. J. VASSILEVA / On the Velocity Field Distribution in the Solar Photosphere **16**, 37 (*Research Note*)
- KALKOFEN, W., *see* Gingerich, O. *et al.*
- KALKOFEN, W., *see* Noyes, R. W.
- KALKOFEN, W., *see* Ulmscheider, Peter
- KÁLMÁN, B., *see* Fárník, F. *et al.*
- KALMAN, G., *see* Bakshi, P.
- KAMIN, G., *see* Baum, P. J. *et al.*
- KAN, J. R., S.-I. AKASOFU, and L. C. LEE / A Dynamo Theory of Solar Flares **84**, 153
- KAN, L. C., *see* Wu, S. T. *et al.*
- KANBACH, G., *see* Forrest, D. J. *et al.*
- KANDEL, R. S. and S. L. KEIL / Solar Granulation, Limb Flux, and Oblateness **33**, 3
- KANDEL, R. S., M. D. PAPAGIANNIS, and F. M. STRAUSS / The Transfer of Lyman Continuum Radiation in Chromospheric Flares **21**, 176
- KANE, R. P. and N. B. TRIVEDI / Relationship between Sunspot Numbers during Years of Sunspot Maximum and Sunspot Minimum **68**, 135
- KANE, S. R. / Evidence for a Common Origin of the Electrons Responsible for the Impulsive X-Ray and Type III Radio Bursts **27**, 174
- KANE, S. R. / Spatial Structure of High Energy Photon Sources **86**, 355
- KANE, S. R. and H. S. HUDSON / Re-Interpretation of OSO-III Scintillation Counter Measurements of Hard Solar X-Ray Spectra **14**, 414
- KANE, S. R. and R. P. LIN / Location of the Electron Acceleration Regio in Solar Flares **23**, 457
- KANE, S. R. and M. PICK / Non-Thermal Processes during the 'Build-up' Phase of Solar Flares and in Absence of Flares **47**, 293
- KANE, S. R. and J. R. WINCKLER / An Atlas of 10–50 keV Solar Flare X-Rays and Tentative Atlas of Solar Proton Events observed by the OGO-I and OGO-III Ionization Chambers **6**, 151 (*Research Note*)
- KANE, S. R., R. W. KREPLIN, M.-J. MARTRES, M. PICK, and I. SORU-ESCAUT / Acceleration of Electrons in Absence of Detectable Optical Flares Deduced from Type III Radio Bursts, H α Activity and Soft X-Ray Emission **38**, 483
- KANE, S. R. and J. R. WINCKLER / Observations of Energetic X-Rays and Solar Cosmic Rays Associated with the 23 May 1967 Solar Flare Event **6**, 304
- KANE, S. R., Y. UCHIDA, K. TANAKA, and H. S. HUDSON / Foreword (to Recent Advances in the Understanding of Solar Flares) **86**, ix
- KANE, S. R., S. W. KAHLER, and J. D. KURFESS / The Impulsive X-Ray Burst of October 10, 1970 **25**, 418
- KANE, S. R., *see* Arnoldy, R. L.
- KANE, S. R., *see* Aschwanden, M. J. *et al.*
- KANE, S. R., *see* Brown, J. C. *et al.*
- KANE, S. R., *see* Dwivedi, B. N. *et al.*
- KANE, S. R., *see* Hudson, H. S. *et al.*
- KANE, S. R., *see* Kahler, S. W. *et al.*
- KANE, S. R., *see* Kai, K. *et al.*
- KANE, S. R., *see* Kundu, M. R. *et al.*
- KANE, S. R., *see* Lin, Hua-An *et al.*
- KANE, S., *see* Klein, L. *et al.*
- KANNO, M. / Comments on the Paper 'On the Reliability of the Structure of the Low Corona as Derived from Flash Spectra' by R. Giovanelli **43**, 381
- KANNO, M. / Weakening of the Solar EUV Line Emission Near the Sun's Limb **89**, 253
- KANNO, M. and R. TANAKA / The Geometry of the Chromosphere-Corona Transition Region Inferred from the Center-to-Limb Variation of the Radio Emission **43**, 63
- KANNO, M., H. KUROKAWA, and the HINOTORI GROUP / Observations of a Compact Flare on 1981, September 7, in H α , X-Ray, and Microwave Radiations **86**, 193 (*Extended Abstract*)
- KANNO, M., Y. SUEMATSU, and T. NISHIKAWA /

- Weakening of the Solar Extreme-Ultraviolet Line Emission by Lyman Continuum Absorption as Derived from Line Ratios **91**, 71 (*Research Note*)
- KANNO, M., T. TSUBAKI, and H. KUOKAWA / On the Coronal Lines in the Chromosphere at the 1970 Eclipse **21**, 314
- KANNO, M., G. L. WITHBROE, and R. W. NOYES / Analysis of Extreme-Ultraviolet Spectroheliograms of Solar Prominences **69**, 313
- KANNO, M., *see* Kurokawa, H. *et al.*
- KANNO, M., *see* Tsubaki, T. *et al.*
- KAPAH, V. K., *see* Swarup, G.
- KAPLON, M. F. and D. VALENTINE / High-Energy Proton, Helium and Gamma-Ray Observations on OSO-III **6**, 216
- KARABIN, M., *see* Kubičela, A.
- KARABIN, M., *see* Kubicela, A.
- KAREV, U. I., *see* Krutov, V. V. *et al.*
- KAREV, V. I., *see* Grineva, Yu. I. *et al.*
- KARLICKÝ, M. / Type III Bursts and Coronal Temperature **71**, 381 (*Research Note*)
- KARLICKÝ, M. / Narrowband dm-Spikes as Indication of Flare Mass Ejection **92**, 329
- KARLICKÝ, M., *see* Fárník, F. *et al.*
- KARPEN, J. T. / The Role of Betatron Acceleration in Complex Star Bursts **77**, 205
- KARPEN, J. T., *see* Brown, J. C. *et al.*
- KARPINSKY, V. N. and V. V. MEKHAŇKOV / Two-Dimensional Spatial Spectrum of the Photospheric Brightness Field near to the Solar Disc Center **54**, 25
- KARPINSKY, V. N., *see* Krat, V. A. *et al.*
- KASAHARA, I., *see* Fukada, Y. *et al.*
- KASSINSKY, V. V. and V. A. KRAT / On the Solar Tsunami **31**, 219
- KASTNER, Sidney O. / Oscillator Strengths for Resonance Lines of Some Silicon and Sulfur Ions **2**, 196
- KASTNER, S. O. / Prediction and Identification of Some Forbidden Lines in the Ne I Sequence **37**, 179 (*Research Note*)
- KASTNER, S. O. / Forbidden Transition Probabilities for Ground Terms of Ions with p or p^5 Configurations **46**, 179
- KASTNER, S. O. / Proposed Mg V, Fe XIV and Forbidden Fe XVII Line Identifications in the EUV Solar Spectrum **81**, 59 (*Research Note*)
- KASTNER, S. O. / Expected Intensities of Solar Forbidden Lines Emitted from $2p^k$ ($k = 2, 3, 4$) Configurations **85**, 41
- KASTNER, S. O., W. M. NEUPERT, and M. SWARTZ / On Helium-Like $1s2l-1snl'$ Transitions in Solar Flare Spectra **36**, 121
- KASTNER, S. O., W. M. NEUPERT, and M. SWARTZ / Observation of Possible Fe XVII $2p^5 3p(^1S_0) - 2p^5 3s(^1P_1, ^3P_1)$ Transitions in Spectra of a Solar Active Region and Flare **43**, 111
- KASTNER, S. O., *see* Bhatia, A. K.
- KASTNER, S. O., *see* Bhatia, A. K.
- KASTNER, S. O., *see* Mason, H. E. *et al.*
- KASTNER, S. O., *see* Neupert, W. M. *et al.*
- KATO, Shoji and Y. NAKAGAWA / The Solar Differential Rotation and 'Rossby-Type' Waves **10**, 476
- KATO, S. and Y. NAKAGAWA / Excitation of Non-Spherical Waves in Solar Atmosphere in the Presence of Toroidal Magnetic Field **14**, 138
- KATO, Shoji, *see* Saito, Mamoru
- KATO, T., T. OMODAKA, M. FUJISHITA, K.-A. KAWABATA, and H. OGAWA / Rising Motion of a behind-the-Limb Flare at 35 GHz **78**, 137 (*Research Note*)
- KATO, T., *see* Kawabata, K. *et al.*
- KATSNELSON, S. S., *see* Sokolov, V. S. *et al.*
- KATSOVA, M. M., *see* Livshits, M. A. *et al.*
- KATTENBERG, A. and M. KUPERUS / Spatially Coherent Oscillations in Microwave Bursts **85**, 185
- KATTENBERG, A. and R. SILLEN / A Low- β Coronal Loop Model. II: Kink Instabilities in Loops Surrounded by Plasma **79**, 343
- KATTENBERG, A. and G. VAN DER BURG / A Study of the Parameters of Individual Type-I Bursts **77**, 231
- KATTENBERG, A., M. ALLAART, C. DE JAGER, A. SCHADEE, J. SCHRIJVER, K. SHIBASAKI, Z. ŠVESTKA, and W. VAN TEND / Radio, X-Ray and Optical Observations of the Flare of June 13, 1980, at 6^h22^mUT **88**, 315
- KATTENBERG, A., *see* Sillen, R. M. J.
- KATZ, J. M. / On the Solution of the Transfer Equation System for a Non-Scattering Medium with a Homogeneous Magnetic Field **20**, 362 (*Research Note*)
- KATZ, J. M. / On the Choice of Boundary Conditions for Integration of Transfer Equations **24**, 28
- KATZ, J. M., *see* Grigorjev, V. M.
- KATZ, J. M., *see* Grigorjev, V. M.
- KAUFMANN, Pierre / Solar Physics at Mackenzie University, São Paulo, Brazil **3**, 360 (*Report from Solar Institute*)
- KAUFMANN, P. / Some Characteristics of an S-Component of Solar Radiation identified on November 1966 Eclipse at 4.28-cm Wavelength **4**, 58

- KAUFMANN, P. / Unpolarized Impulsive Solar Bursts Observed at 7 GHz **9**, 166
- KAUFMANN, P. / The New Itapetinga Radio Observatory, from Mackenzie University, São Paulo, Brasil **18**, 336 (*Report from Solar Institute*)
- KAUFMANN, P. / Possible Long-Period Oscillations in Solar Radio Emission at Microwaves **23**, 178
- KAUFMANN, P. / Polarization of a Periodic Solar Microwave Burst **50**, 197 (*Research Note*)
- KAUFMANN, P. / Fast Time Structures Superimposed to Impulsive Solar Microwave Bursts with Slowly Varying or Stationary Polarization Degree **60**, 367
- KAUFMANN, P. and L. RIZZO PIAZZA / On the Relation of SPA Measured at VLF to Solar Microwave Burst Energies **57**, 479 (*Research Note*)
- KAUFMANN, P. and M. H. PAES DE BARROS / Some Relationships Between Solar X-Ray Bursts and SPA's Produced on VLF Propagation in the Lower Ionosphere **9**, 478
- KAUFMANN, P., E. CORREIA, J. E. R. COSTA, B. R. DENNIS, G. J. HURFORD, and J. C. BROWN / Multiple Energetic Injections in a Strong Spike-Like Solar Burst **91**, 359
- KAUFMANN, P., E. CORREIA, J. E. R. COSTA, H. S. SAWANT, and A. M. ZODI VAZ / The Simplest Solar Microbursts Flux and Circular Polarization at 22 GHz **95**, 155
- KAUFMANN, P., J. E. R. COSTA, and F. M. STRAUSS / Time Delays in Solar Bursts Measured in the mm-cm Range of Wavelengths **81**, 159
- KAUFMANN, P., P. IACOMO, JR., E. H. KOPPE, P. MARQUES DOS SANTOS, R. E. SCHAAL, and J. R. BLAKEY / The July 1974 Solar Events: A Possible Lower Limit for Microwave Activity **45**, 189
- KAUFMANN, P., O. T. MATSUURA, and P. M. DOS SANTOS / Polarization Changes with Time during Solar Microwave Impulsive Bursts **14**, 190
- KAUFMANN, P., L. RIZZO PIAZZA, and J. C. RAFFAELLI / 4.7 s Nearly Periodic Oscillations Superimposed on the Solar Microwave Great Burst of 28 March 1976 **54**, 179 (*Research Note*)
- KAUFMANN, P., E. SCALISE, JR., and P. M. DOS SANTOS / Changes in Coronal Condensations Emission after Solar Bursts at Microwaves **15**, 195
- KAUFMANN, P., E. SCALISE JR., P. MARQUES DOS SANTOS, R. E. SCHAAL, and R. A. A. FORTUNATO / Microwave Observations of the 4 January, 1973 Solar Eclipse **33**, 69
- KAUFMANN, P., E. SCALISE, JR., R. E. SCHAAL, J. R. D. LÉPINE, D. BASU, and A. L. IBAÑEZ / Search for Circular Polarized Emission from Solar Hemispheres at Microwaves **29**, 393
- KAUFMANN, P., F. M. STRAUSS, R. E. SCHAAL, and C. LAPORTE / The Use of the Large mm-Wave Antenna at Itapetinga in High Sensitivity Solar Research **78**, 389 (*Report from Solar Institute*)
- KAUFMANN, P., F. M. STRAUSS, J. E. R. COSTA, B. R. DENNIS, A. KIPLINGER, K. J. FROST, and L. E. ORWIG / Microwave and Hard X-Ray Observations of a Solar Flare with a Time Resolution Better Than 100 ms **84**, 311
- KAUFMANN, P., *see* Costa, J. E. R. *et al.*
- KAUFMANN, P., *see* Degaonkar, S. S. *et al.*
- KAUFMANN, P., *see* Loran, J. M. *et al.*
- KAUFMANN, P., *see* Paes de Barros, M. H.
- KAUFMANN, P., *see* Scalise, E., Jr.
- KAUFMANN, P., *see* Strauss, F. M. *et al.*
- KAUFMANN, P., *see* Sturrock, P. A. *et al.*
- KAUFMANN, P., *see* Tandberg-Hanssen, E. *et al.*
- KAUFMANN, P., *see* Zodi, A. M. *et al.*
- KAVERIN, N. S., M. M. KOBRIN, A. I. KORSHUNOV, and V. V. SHUSHUNOV / Fine Structure of the S-Component Spectrum of the Solar Radio Emission in the Frequency Range 5.0–7.0 GHz **63**, 379
- KAVETSKY, A. and B. J. O'MARA / The Solar O I λ 7773 Triplet. I: Spatially Resolved Profiles **92**, 47
- KAVETSKY, A. and B. J. O'MARA / The Solar O I λ 7773 Triplet. II: Analysis Using Line Inversion Techniques **96**, 1
- KAWABATA, K., H. OGAWA, and I. SUZUKI / A Flare Model Deduced from HINOTORI and Millimeterwave Interferometer Observations **86**, 247
- KAWABATA, K., M. FUJISHITA, T. KATO, H. OGAWA, and T. OMODAKA / Solar Brightness Distribution at 8.6 mm from Interferometer Observations **65**, 201
- KAWABATA, K., Y. SOFUE, H. OGAWA, and T. OMODAKA / Interferometer Observations of a Radio Burst at 8.6 mm Associated with a Polarized Hard X-Ray Event **31**, 469
- KAWABATA, K.-A., *see* Kato, T. *et al.*
- KAWABATA, KIN-AKI, *see* Ogawa, Hideo
- KAWABATA, K., *see* Sofue, Y. *et al.*
- KAWABATA, K., *see* Suzuki, I.
- KAWABATA, K., *see* Suzuki, I. *et al.*
- KAWAGUCHI, I. / On the Dome Formation in the Corona around a Prominence observed at the Total Eclipse of 15 February 1961 **1**, 420
- KAWAGUCHI, I. / Morphological Study of the

- Solar Granulation. II: The Fragmentation of Granules **65**, 207
- KAWAGUCHI, I. and R. KITAI / Coronal Prominences on the Disk Observed on 29 October 1972 **33**, 145
- KAWAGUCHI, I. and R. KITAI / The Velocity Field Associated with the Birth of Sunspots **46**, 125
- KAWAGUCHI, I., Y. NAKAI, Y. FUNAKOSHI, and K.-S. KIM / Brightening Phenomena in Prominences at the Center of the H α Line **91**, 87
- KAWAGUCHI, I., N. ODA, and S. MIZUNO / Observation of a Smoke Ring on October 30, 1970 **22**, 140 (*Research Note*)
- KAWAGUCHI, I., *see* Kitai, R.
- KAWAGUCHI, I., *see* Kubota, J. *et al.*
- KAWAGUCHI, I., *see* Kurokawa, H. *et al.*
- KAWAGUCHI, I., *see* Nikaidou, Y.
- KAWAJARI, N., *see* Sofue, Y. *et al.*
- KAWAMURA, K., T. OMODAKA, and I. SUZUKI / An Interpretation of the Decay Characteristics of Solar Hard X-Ray Bursts **71**, 55
- KEARNEY, P. D., *see* Bame, S. J. *et al.*
- KEARNEY, P. D., *see* Bame, S. J. *et al.*
- KEARNS, M. / Measurement of the Solar Rotation, 1978, from Recurrent and Non-Recurrent Sunspots **62**, 393
- KEARNS, M. D., *see* Snider, J. L. *et al.*
- KEATH, E. P., R. P. BUKATA, K. G. MCCrackEN, and U. R. RAO / The Anomalous Distribution in Heliocentric Longitude of Solar Injected Cosmic Radiation **18**, 503
- KEATH, E. P., *see* Bukata, R. P. *et al.*
- KEATH, E. P., *see* McCracken, K. G. *et al.*
- KEATING, G. M. / The Response of Ozone to Solar Activity Variations: a Review **74**, 321
- KEENAN, F. P. / The Effect of a Non-Maxwellian Electron Velocity Distribution on Be-Like Ion Diagnostics in the Sun **91**, 27
- KEENAN, F. P. and K. A. BERRINGTON / Improved Theoretical Line Ratios for CIII in the Sun **99**, 25
- KEENAN, F. P., A. E. KINGSTON, P. L. DUFTON, J. G. DOYLE, and K. G. WIDING / Mg IX and Si XI Line Ratios in the Sun **94**, 91
- KEENAN, F. P., S. S. TAYAL, and A. E. KINGSTON / Theoretical Emission Line Ratios for OVII in Low Density Plasmas **92**, 75
- KEENAN, F. P., S. S. TAYAL, and A. E. KINGSTON / Theoretical NeIX Line Ratios Compared to Solar Observations **94**, 85
- KEENAN, F. P., *see* Doyle, J. G. *et al.*
- KEIL, S. L. / A New Measurement of the Center-to-Limb Variation of the rms Granular Contrast **53**, 359
- KEIL, S. L. and F. H. YACKOVICH / Photospheric Line Asymmetry and Granular Velocity Model **69**, 213
- KEIL, S. L., *see* Kandel, R. S.
- KEIL, S. L., *see* Lites, B. W. *et al.*
- KEIL, S. L., *see* Muller, R.
- KEIL, S., *see* Miller, P. *et al.*
- KEISER, J. / Results of New Absolute Measurements of the Solar Flux Density at 9500 MHz **14**, 366
- KEITH, D. W., *see* Cohen, G. G.
- KELCH, W. L. and J. L. LINSKY / Physical Properties of Solar Chromospheric Plages. III. Models Based on Ca II and Mg II Observations **58**, 37
- KELLER, C. F. / Results of Polarization Observations of the Outer Corona from a Jet Aircraft **21**, 425
- KELLER, C. F., *see* Mutschlecner, J. P.
- KELLOGG, P. J. / Tracking of Kilometric-Wave Type III Solar Bursts in Elevation and Elongation and Apparent Source Sizes **46**, 449
- KELLOGG, P. J. / Comments on the Mechanism of Type III Bursts **46**, 543
- KELLOGG, P. J. and R. P. LIN / Generation of Solar Type III Bursts at the 2nd Harmonic **46**, 447 (*abstract only*)
- KELLY, P. T. and W. A. RENSE / Solar Flares in the EUV Observed from OSO-5 **26**, 431
- KEMP, J. C., *see* Henson, G. D.
- KENNEDY, W. A. G., *see* Bell, M. B. *et al.*
- KENNY, P. J., *see* Woodgate, B. E. *et al.*
- KENT, B. J., *see* Acton, L. W. *et al.*
- KEPPLER, E., *see* Sanahuja, B. *et al.*
- KESTENBAUM, H. L., *see* Parkinson, J. H. *et al.*
- KESTEVEN, M. J. L., *see* Hughes, V. A.
- KHETSURIANI, Ts. S. / Abastumani Astrophysical Observatory of the Academy of Sciences of the Georgian SSR **2**, 237 (*Report from Solar Institute*)
- KHETSURIANI, Ts. S. and E. I. TETRUSHVILI / The Results of Coronal Investigation at the September 22, 1968 Solar Eclipse **25**, 343
- KHETSURIANI, Ts. S. / Solar Investigations at Abastumani Astrophysical Observatory of the Academy of Sciences of Georgia, U.S.S.R. **69**, 405 (*Report from Solar Institute*)
- KHLOPOV, M. YU., *see* Blinnikov, S. I.
- KIEPENHEUER, K. O. / Fraunhofer Institut, Freiburg **1**, 162 (*Report from Solar Institute*)
- KIEPENHEUER, K. O. / 'In Memoriam' by A. BRUZEK **43**, 3
- KIEREIN, J. W. and B. M. SHARP / Compton Effect Interpretation of Solar Red Shift **3**, 450
- KIM, I. S. and G. M. NIKOLSKY / Filter Observations of Prominences in the D₃ and H α Lines

- 38, 377
- IM, I. S. and G. M. NIKOLSKY / Investigation of Emission Lines of the Solar Corona of 10 July, 1972 Using the Fabry-Pérot Etalon **43**, 351
- IM, I. S., *see* Nikolsky, G. M. *et al.*
- IM, I. S., *see* O en Den *et al.*
- IM, K.-S., *see* Kawaguchi, I. *et al.*
- ING, J. H., *see* Bougeret, J.-L. *et al.*
- KINGSTON, A. E., J. G. DOYLE, P. L. DUFTON, and J. B. GURMAN / An Emission Measure Analysis of Two Sunspots Observed by the UVSP Instrument on the SMM Spacecraft **81**, 47
- KINGSTON, A. E., *see* Doyle, J. G. *et al.*
- KINGSTON, A. E., *see* Keenan, F. P. *et al.*
- KINGSTON, A. E., *see* Keenan, F. P. *et al.*
- KINZER, R. L., *see* Forrest, D. J. *et al.*
- KIPLINGER, A. L., B. R. DENNIS, A. G. EMSLIE, K. J. FROST, and L. E. ORWIG / Fast Transients in Hard X-Ray Solar Flares **86**, 239 (*Abstract*)
- KIPLINGER, A. L., *see* Bai, T. *et al.*
- KIPLINGER, A., *see* Kaufmann, P. *et al.*
- KIRILLOV-UGRYUMOV, V. G., *see* Galper, A. M. *et al.*
- KIRILLOV-UGRYUMOV, V. G., *see* Volobuyev, S. A. *et al.*
- KIRK, J. G. and W. LIVINGSTON / A Solar Granulation Spectrogram **3**, 510 (*Research Note*)
- KIRK, J. G. and J. S. NEWBY / Curvature and Surface Distribution of the Polar Rays in the Solar Corona on 12 November 1966 **35**, 377
- KIRSCH, E. / Estimation of an Upper Limit for the Solar Neutron Emission during Large Flares **28**, 233
- KIRSCH, E. and J. W. MÜNCH / Intensities and Anisotropies of Low Energy Solar Protons Measured aboard the Satellites Azur, Explorer 35 and 41, November 1969–April 1970 **39**, 459
- KIRSHNER, R. P. and R. W. NOYES / EUV Observations of a Surge **20**, 428
- KIRSHNER, R. P., *see* Noyes, R. W. *et al.*
- KISHONKOV, A. K. and M. M. MOLODENSKY / Precise Determination of the Orientation of the Plane of Polarization in the Solar Corona **42**, 341
- KISHONKOV, A. K., *see* Nikolsky, G. M. *et al.*
- KISHYAKOV, A. G., *see* Efanov, V. A.
- KISLYAKOV, A. G., *see* Efanov, V. A. *et al.*
- KISSEL, K. E., *see* Byard, P. L.
- KITAI, R. / On the Mass Motions and the Atmospheric States of Moustaches **87**, 135
- KITAI, R. and I. KAWAGUCHI / Photospheric Velocity Field Associated with Moustaches **44**, 403
- KITAI, R. and I. KAWAGUCHI / Morphological Study of the Solar Granulation. I: Dark Dot Formation in the Cell **64**, 3
- KITAI, R. and R. MULLER / On the Relation between Chromospheric and Photospheric Fine Structure in an Active Region **90**, 303
- KITAI, R., *see* Kawaguchi, I.
- KITAI, R., *see* Kawaguchi, I.
- KITAI, R., *see* Kubota, J. *et al.*
- KITAI, R., *see* Shibata, K. *et al.*
- KITAI, R., *see* Suematsu, Y. *et al.*
- KJELDSETH MOE, O. / A Generalized Theory for Line Formation in a Homogeneous Magnetic Field **4**, 267
- KJELDSETH MOE, OLAV / The Influence of Molecular Blends and Non-Thermal Line Broadening on the Profile of the Zeeman Triplet $\lambda 5250.22$ in Sunspots **33**, 393
- KJELDSETH MOE, O. and P. MALTBY / A Model for the Penumbra of Sunspots **8**, 275
- KJELDSETH MOE, OLAV and P. MALTBY / The Temperature of Penumbral Filaments **36**, 101
- KJELDSETH MOE, OLAV and P. MALTBY / Models for Different Sunspot Umbrae **36**, 109
- KJELDSETH MOE, O., J. W. COOK, and S. A. MANGO / EUV Observations of Quiescent Prominences from Skylab **61**, 319
- KJELDSETH MOE, OLAV, O. ENGVOLD, and J. M. BECKERS / A Comparison of Spicules in the H α and He II (304 Å) Lines **40**, 65
- KJELDSETH MOE, O., *see* Cheng, C.-C.
- KJELDSETH MOE, O., *see* Cook, J. W.
- KJELDSETH-MOE, O., *see* Nicolas, K. R. *et al.*
- KLECKER, B., *see* Armstrong, T. P. *et al.*
- KLECZEK, J. / Splintering Loop Prominences **7**, 238
- KLECZEK, J. / The Sun as a System of Elementary Particles **100**, 115 (*Invited Review*)
- KLECZEK, J. and M. KUPERUS / Oscillatory Phenomena in Quiescent Prominences **6**, 72
- KLECZEK, J., *see* Ballester, J. L.
- KLECZEK, J., *see* Ballester, J. L.
- KLEIN, L., K. ANDERSON, M. PICK, G. TROTTET, N. VILMER, and S. KANE / Association between Gradual Hard X-Ray Emission and Metric Continua during Large Flares **84**, 295
- KLEIN, L., *see* Švestka, Z. *et al.*
- KNEER, F. / On Some Characteristics of Umbrae Fine Structure **28**, 361
- KNEER, F. and W. MATTIG / Sunspot Intensities and their Correction for Scattered Light **5**, 42
- KNEER, F. J., W. MATTIG, A. NESIS, and W. WERNER / Coherence Analysis of Granular Intensity **68**, 31
- KNEER, F., G. SCHARMER, W. MATTIG, A. WYLLER, G. ARTZNER, P. LEMAIRE, and J. C. VIAL / OSO-8 Observations of Ca II H and K, Mg II h and k, L α and L β above a Sunspot **69**,

- 289
- KNEER, F., *see* Grossmann-Doerth, U. *et al.*
- KNEER, F., *see* Grossmann-Doerth, U. *et al.*
- KNEER, F., *see* Heasley, J. N. *et al.*
- KNEUBÜHL, F. K., *see* Stettler, P. *et al.*
- KNIGHT, J. W., C. E. NEWMAN, and P. A. STURROCK / Two-Fluid Model of the Solar Corona **37**, 183
- KNIGHT, J. W., C. E. NEWMAN, and P. A. STURROCK / Reply to Billings Concerning 'Two-Fluid Model of the Solar Corona' **41**, 371 (Research Note)
- KNIGHT, J. W., *see* Hoyng, P. *et al.*
- KNIGHT, J. W., *see* Sturrock, P. A.
- KNÖLKER, M. and M. STIX / A Convenient Method to Obtain Stellar Eigenfrequencies **82**, 331
- KNÖLKER, M., *see* Schmidt, W. *et al.*
- KNOX, E. D., *see* Woodgate, B. E. *et al.*
- KOBANOV, N. I. / The Study of Velocity Oscillations in the Solar Photosphere Using the Velocity Subtraction Technique **82**, 237
- KOBANOV, N. I. / On the Accuracy of Line-of-Sight Velocity Measurements Using Telluric Lines as Reference Lines **99**, 21 (Research Note)
- KOBANOV, N. I., *see* Bashkirtsev, V. S. *et al.*
- KOBLER, H., *see* Ramsay, J. V. *et al.*
- KOBRIN, M. M. and A. I. KORSHUNOV / On Quasi-Periodic Components with Periods from 30 to 60 min of Amplitude Fluctuations of X-Band Solar Radio Emission **25**, 339
- KOBRIN, M. M., A. I. KORSHUNOV, S. I. ARBUZOV, V. V. PAKHOMOV, V. M. FRIDMAN, and YU. V. TIKHOMIROV / Manifestation of Pulsation Instability in Solar Radio Emission Preceding Proton Flares **56**, 359
- KOBRIN, M. M., V. V. PAKHOMOV, and N. A. PROKOF'EVA / The Existence of Quasi-Periodic Oscillations with Periods from a Minute up to Some Hours in the Solar Radio Emission at $\lambda = 3$ cm **50**, 113
- KOBRIN, M. M., *see* Kaverin, N. S. *et al.*
- KOCH, A. / Plasma Motion in Umbrae and the Surrounding Photosphere Derived from Spectroscopic Doppler Measurements and Tracer Measurements of Spots **93**, 53
- KOCH, A., G. KÜVELER, and E. H. SCHRÖTER / On Depth-Dependence of Photospheric Oscillations **64**, 13
- KOCH, A., H. WÖHL, and E. H. SCHRÖTER / On Diurnal Variations of the Solar Rotation Rate as Derived from Sunspot Tracings **71**, 395
- KOCKARTS, G. / Effects of Solar Variations on the Upper Atmosphere **74**, 295
- KOECKELENERBERGH, A. / Solar Activity Observations at Uccle and Humain Stations **16**, 49 (Report from Solar Institute)
- KOECKELENERBERGH, A., *see* Clette, F. *et al.*
- KOELBLOED, D., *see* van Dessel, E. L. *et al.*
- KOGUT, J. A., *see* Papagiannis, M. D.
- KOGUT, J. A., *see* Straka, R. M. *et al.*
- KÖHLER, H. / Differential Rotation Caused by Anisotropic Turbulent Viscosity **13**, 3
- KÖHLER, H. / On Differential Rotation **34**, 11 (Research Note)
- KOMLE, N. / Structure and Evolution of Magnetic Network Features **64**, 213
- KONDÁS, L., *see* Dezső, L. *et al.*
- KONDO, I., *see* Yoshimori, M. *et al.*
- KONDRASHOVA, N. N. and E. A. GURTOVENKO / The Determination of the Velocity Amplitude of the Total Photospheric Motion Field. I: The Use of the Weak and Moderately Weak Lines **34**, 291
- KONDRASHOVA, N. N., *see* Gurtovenko, E. A.
- KONDRASHOVA, N. N., *see* Gurtovenko, E. A. *et al.*
- KONDRATYEV, K. YA. and G. A. NIKOLSKY / The Solar Constant and Climate **89**, 215
- KONONOV, E. YA., *see* Korneev, V. V. *et al.*
- KONONOV, E. YA., *see* Koshelev, K. N.
- KOOMEN, M., R. HOWARD, R. HANSEN, and S. HANSEN / The Coronal Transient of 16 June 1972 **34**, 447
- KOOMEN, M. J., N. R. SHEELEY, JR., R. A. HOWARD, and D. J. MICHELS / The Frequency of Long-Duration Solar X-Ray Events **97**, 375
- KOOMEN, M. J., *see* Bird, M. K. *et al.*
- KOOMEN, M. J., *see* Bohlin, J. D. *et al.*
- KOOMEN, M. J., *see* Cliver, E. W. *et al.*
- KOOMEN, M. J., *see* Fisher, R. R. *et al.*
- KOOMEN, M. J., *see* Gergely, T. E. *et al.*
- KOOMEN, M. J., *see* Howard, R. A.
- KOOMEN, M. J., *see* Kahler, S. *et al.*
- KOOMEN, M. J., *see* Poland, A. I. *et al.*
- KOOMEN, M. J., *see* Stewart, R. T. *et al.*
- KOOMEN, M. J., *see* Tousey, R.
- KOOMEN, M. J., *see* Wagner, W. J. *et al.*
- KOOPS, H., *see* Bräuninger, H. *et al.*
- KOPECKÝ, M. / The Fine Structure of Magnetic Fields in Sunspots and the Dependence of the Magnetic Field on the Spot Area **7**, 26 (Research Note)
- KOPECKÝ, M. / Electric Conductivity in the Inhomogeneous Photosphere and Sunspots **14**, 136 (Research Note)
- KOPECKÝ, M. / Sunspot Activity according to Greenwich Observations **93**, 181 (Invited Review)
- KOPECKÝ, M. and G. V. KUKLIN / On a More Precise Calculation of the Electric Conductivity

- in the Photosphere and in Sunspots **6**, 241
- KOPECKÝ, M. and V. OBRIDKO / On the Energy Release by Magnetic Field Dissipation in the Solar Atmosphere **5**, 354
- KOPP, R. A. / Energy Balance in the Chromosphere-Corona Transition Region **27**, 373
- KOPP, R. A. / A Semi-Analytical Approach to Time-Dependent Coronal Expansion **68**, 307
- KOPP, R. A. and T. E. HOLZER / Dynamics of Coronal Hole Regions. I: Steady Polytropic Flows with Multiple Critical Points **49**, 43
- KOPP, R. A. and Max KUPERUS / Magnetic Fields and the Temperature Structure of the Chromosphere-Corona Interface **4**, 212
- KOPP, R. A. and G. W. PNEUMAN / Magnetic Reconnection in the Corona and the Loop Prominence Phenomenon **50**, 85
- KOPP, R. A. and G. POLETO / Extension of the Reconnection Theory of Two-Ribbon Solar Flares **93**, 351
- KOPP, R. A., G. POLETO, G. NOCI, and M. BRUNER / Analysis of Loop Flows Observed on 27 March, 1980 by the UVSP Instrument during the Solar Maximum Mission **98**, 91
- KOPP, R. A., *see* Pneuman, G. W.
- KOPP, R. A., *see* Pneuman, G. W.
- KOPPE, E. H., *see* Kaufmann, P. *et al.*
- KÖPPEN, J. / Sunspot and Stray Light Observations during the 1971, February 25 Partial Solar Eclipse **42**, 325
- KOPYSOV, YU. S., *see* Gavryuseva, E. A. *et al.*
- KORCHAK, A. A. / On the Origin of Solar Flare X-Rays **18**, 284
- KORCHAK, A. A. / On the Problem of Power-Law Spectrum of Particles Accelerated in Solar Flares **56**, 223
- KORCHAK, A. A. / On the Problem of Power-Law Spectrum of Particles Accelerated in Solar Flares (*Errata*) **58**, 211 (**56**, 223)
- KORCHAK, A. A. / Coulomb Losses and the Nuclear Composition of the Solar Flare Accelerated Particles **66**, 149
- KOREN, U., *see* Zanelli, C. *et al.*
- KORFF, S. A. and R. B. MENDELL / Photography of the Eclipse of 7 March, 1970 from Two Locations **21**, 482
- KORNEEV, V. V., V. V. KRUTOV, S. L. MANDELSTAM, A. M. URNOV, I. A. ZHITNIK, E. YA. KONONOV, B. SYLWESTER, and J. SYLWESTER / Solar Flare X-Ray Spectra. I: Wavelengths of FeXXIV-XXV Lines in the Region $\lambda = 1.85\text{--}1.87 \text{ \AA}$ **63**, 319
- KORNEEV, V. V., V. V. KRUTOV, S. L. MANDELSTAM, A. M. URNOV, I. A. ZHITNIK, E. YA. KONONOV, and Y. V. SIDELNIKOV / Solar Flare X-Ray Spectra. II: Laboratory Reproduction in the Region of FeXXI – XXVI Resonance Lines **63**, 329
- KORNEEV, V. V., V. V. KRUTOV, S. L. MANDELSTAM, B. SYLWESTER, I. P. TINDO, A. M. URNOV, B. VALNÍČEK, and I. A. ZHITNIK / Solar Flare X-Ray Spectra. III: Initial and Final Phase **68**, 381
- KORNEEV, V. V., I. A. ZHITNIK, S. L. MANDELSTAM, and A. M. URNOV / On Doppler Shifts of the FeXXV Ion Resonance Line in Solar Flare X-Ray Spectra **68**, 391 (*Research Note*)
- KORNEEV, V. V., *see* Aglizki, E. V. *et al.*
- KORNEEV, V. V., *see* Bromboszcz, G. *et al.*
- KORNEEV, V. V., *see* Grineva, Yu. I. *et al.*
- KORNEEV, V. V., *see* Jakimiec, J. *et al.*
- KORNEEV, V. V., *see* Krutov, V. V. *et al.*
- KORNEEV, V. V., *see* Siarkowski, M. *et al.*
- KORNEEV, V. V., *see* Siarkowski, M. *et al.*
- KOROBEINIKOV, V. P. / On the Gas Flow Due to Solar Flares **7**, 463
- KOROBOVA, Z. B., *see* Slonim, Yu. M.
- KOROLEV, O. S., *see* Chernov, G. P. *et al.*
- KORSHUNOV, A. I., *see* Kaverin, N. S. *et al.*
- KORSHUNOV, A. I., *see* Kobrin, M. M. *et al.*
- KORSHUNOV, A. I., *see* Kobrin, M. M.
- KORZHAVIN, A. N., *see* Akhmedov, Sh. B. *et al.*
- KORZHOV, N. P. / Large-Scale Three-Dimensional Structure of the Interplanetary Magnetic Field **55**, 505
- KOSHELEV, K. N. and E. YA. KONONOV / A Possible Explanation of Non-Steady-State Appearances in X-Ray Spectra of Solar Flares **77**, 177
- KOSOVICHEV, A. G. and A. B. SEVERNY / On the Excitation of Oscillations of the Sun (Numerical Models) **82**, 323
- KOSOVICHEV, A. G., *see* Livshits, M. A. *et al.*
- KOSOVICHEV, A. G., *see* Sokolov, V. S. *et al.*
- KOSTIK, R. I. and T. V. ORLOVA / The Interpretation of Absorption-Line Shifts in the Solar Spectrum **26**, 42
- KOSTIK, R. I. and T. V. ORLOVA / On the Asymmetry of Selected Fraunhofer Lines **36**, 279
- KOSTIK, R. I. and T. V. ORLOVA / On the Possible Mechanism of Formation of Emission Rim in Hydrogen Filaments **45**, 119
- KOSTIK, R. I. and T. V. ORLOVA / On the Asymmetry of Selected Fraunhofer Lines **53**, 353
- KOSTIK, R. I. and T. V. ORLOVA / On the Microturbulence in the Solar Photosphere **62**, 89 (*Research Note*)

- KOSTIUK, T., *see* Deming, D. *et al.*
- KOSUGI, T. / Type II-IV Radio Bursts and Compact and Diffuse White-Light Clouds in the Outer Corona of December 14, 1971 **48**, 339
- KOSUGI, T. / Radio and X-Ray Observations of a Multiple Impulsive Solar Burst with High Time Resolution **71**, 91
- KOSUGI, T. / A Long-Enduring Multi-Source Burst at 17 GHz and Its Relation to a Type IV_{m-dm} Burst with Spectral Fine Features **75**, 293
- KOSUGI, T. and S. TSUNETA / Time Variations of Hard X-Ray Bursts Observed with the Solar Hard X-Ray Telescope aboard HINOTORI (with a movie) **86**, 333
- KOSUGI, T., K. KAI, and T. SUZUKI / Source Characteristics of Main and Post-Burst-Increase Phases of Solar Bursts at 17 GHz **87**, 373
- KOSUGI, T., *see* Kai, K. *et al.*
- KOSUGI, T., *see* Kai, K. *et al.*
- KOSUGI, T., *see* Takakura, T. *et al.*
- KÓTA, J., *see* Gombosi, T. *et al.*
- KOTOV, V. A. / The 160 Minutes Oscillations **100**, 101 (*Invited Review*)
- KOTOV, V. A. and J. O. STENFLO / A Comparison of Simultaneous Measurements of the Polar Magnetic Fields Made at the Crimea and Mount Wilson **15**, 265
- KOTOV, V. A., A. B. SEVERNY, T. T. TSAP, L. G. MOISEEV, V. A. EFANOV, and N. S. NESTEROV / Manifestation of the 160-min Solar Oscillations in Velocity and Brightness (Optical and Radio Observations) **82**, 9 (*Invited Review*)
- KOTOV, V. A., S. KOUTCHMY, and O. KOUTCHMY / Observation of Global 160-min Infrared (Differential) Intensity Variation of the Sun **82**, 21
- KOTOV, V. A., *see* Denisenko, V. V. *et al.*
- KOTOV, V. A., *see* Gopasyuk, S. I. *et al.*
- KOTOV, V. A., *see* Severny, A. B. *et al.*
- KOTOV, V., *see* Scherrer, Ph. H. *et al.*
- KOUTCHMY, O., *see* Kotov, V. A. *et al.*
- KOUTCHMY, S. / Étude hydrodynamique du grand jet coronal ne observé à l'éclipse du 7 Mars 1970 **24**, 373
- KOUTCHMY, S. / Study of the June 30, 1973 Trans-Polar Coronal Hole **51**, 399
- KOUTCHMY, S. and C. MACRIS / Observation in the Wing of the H α Line and Identification of the Spicular Structure near the Solar Limb **20**, 295 (*Research Note*)
- KOUTCHMY, S. and K. H. SCHATTEN / Observations and Discussions Concerning 'High' Polarization Features in the Solar Corona **17**, 117
- KOUTCHMY, S. and G. STELLMACHER / Photometric Study of Chromospheric and Coronal Spikes Observed during the Total Solar Eclipse of 30 June, 1973 **49**, 253
- KOUTCHMY, S., N. J. DZUBENKO, A. T. NESMJANOVICH, et S. K. VSEKHSVJATSKY / Photométrie photographique de la couronne solaire. Observée au cours de l'éclipse totale du 10 juillet 1972 **35**, 369
- KOUTCHMY, S., *see* Adjabshirzadeh, A.
- KOUTCHMY, S., *see* Kotov, V. A. *et al.*
- KOUTCHMY, S., *see* Nikolsky, G. M. *et al.*
- KOVÁCS, Á., *see* Dezső, L. *et al.*
- KOVÁCS, G. / On the Accuracy of Frequency Determination by an Autoregressive Spectral Estimator **82**, 123
- KOVAL, A. N. and A. B. SEVERNY / On the Asymmetry of Moustaches **11**, 276
- KOVAL, A. N., *see* Babin, A. N.
- KOVALENKO, V. A. / Energy Balance of the Corona and the Origin of Quasi-Stationary High-Speed Solar Wind Streams **73**, 383
- KOVAR, N. S. and R. P. KOVAR / Optical Pumping and the D-Line Ratio of Comet 1962-III **3**, 611
- KOVAR, R. P., *see* Kovar, N. S.
- KOVITYA, P. and L. CRAM / Electrical Conductivity in Sunspots and the Quiet Photosphere **84**, 45 (*Research Note*)
- KOVRIZHNIKH, O. M., I. A. SAVENKO, and L. M. CHUPOVA / Directivity of Non-Thermal X-Ray Emission from Solar Flares **50**, 447
- KOZLOVSKY, Ben-Zion / The Stages of Ionization of Oxygen and Helium in the Solar Wind **5**, 410
- KOZLOVSKY, Ben-Zion and Harold ZIRIN / The OIV Emission from the Sun **5**, 50
- KOZLOVSKY, Ben-Zion, *see* Ramaty, R. *et al.*
- KRAFFT, Marina / Spectroscopic Investigation of a Birefringent Lyot-Filter for H α **5**, 462
- KRALL, K. R. / The Effect of Nonlinear Conduction on the Cooling of Flare Loops **55**, 455 (*Research Note*)
- KRALL, K. R., R. J. BESSEY, and J. M. BECKERS / A Time Evolution Study of Limb Spicule Spectra **46**, 93
- KRALL, K. R., E. J. REICHMANN, R. M. WILSON, W. HENZE, JR., and J. B. SMITH, JR. / Analysis of X-Ray Observations of the 15 June 1973 Flare in Active Region NOAA 131 **56**, 383
- KRALL, K. R., E. J. REICHMANN, R. M. WILSON, W. HENZE, JR., and J. B. SMITH, JR. / Analysis of X-Ray Observations of the 15 June 1973 Flare in Active Region NOAA 131 (*Errata*) **57**, 485 (**56**, 383)
- KRALL, K. R., J. B. SMITH, JR., and J. P. MCGUIRE / On the Physics of a Long-Decay X-Ray Event

66, 371

- RALL, K. R., J. B. SMITH, JR., M. J. HAGYARD, E. A. WEST, and N. P. CUMMINGS / Vector Magnetic Field Evolution, Energy Storage, and Associated Photospheric Velocity Shear within a Flare-Productive Active Region **79**, 59
- RALL, K. R., *see* McGuire, J. P. *et al.*
- RALL, K. R., *see* Schmahl, E. J. *et al.*
- RALL, K. R., *see* Wu, S. T. *et al.*
- RÄMER, G., H. J. EINIGHAMMER, G. ELWERT, H. BRÄUNINGER, H. H. FINK, and J. TRÜMPER / Analysis and Interpretation of Soft X-Ray Photographs of Coronal Active Regions Taken with Fresnel Zone Plates. I: Image Analysis **57**, 345
- RÄMER, G., *see* Bräuninger, H. *et al.*
- RASOV, V. I., *see* Altyntsev, A. T. *et al.*
- KRAT, T. V., *see* Krat, V. A.
- KRAT, V. A. / A Model of the Inhomogeneous Chromosphere of the Sun **1**, 191
- KRAT, V. A. / Solar Research at the Pulkovo Astronomical Observatory **4**, 118 (*Report from Solar Institute*)
- KRAT, V. A. / On the Size of the Structure in the Solar Chromosphere **27**, 39
- KRAT, V. A. / On the Structure of the Solar Photosphere **32**, 307 (*Research Note*)
- KRAT, V. A. / On Some Properties of the Photospheric Structure **50**, 259 (*Research Note*)
- KRAT, V. A. / Solar Research at the Pulkovo Astronomical Observatory **73**, 405 (*Report from Solar Institute*)
- KRAT, V. A. and T. V. KRAT / On Physical Properties of Solar Spicules **17**, 355
- KRAT, V. A. / 'In Memoriam' by V. M. SOBOLEV and YU. I. VITINSKY **89**, 1
- KRAT, V. A. and G. F. VYALSHIN / On the Structure of Sunspots **60**, 47
- KRAT, V. A. and L. M. PRAVDJUK / On the Abundance of Deuterium in the Solar Atmosphere **61**, 279 (*Research Note*)
- KRAT, V. A. and M. N. STOJANOVA / On the Structure of Solar Faculae **20**, 57 (*Research Note*)
- KRAT, V. A. and V. A. OSHEROVITCH / On the Excited States of Magnetic Configurations in Connection with the Characteristic Properties of Sunspots **50**, 65 (*Research Note*)
- KRAT, V. A. and V. A. OSHEROVITCH / Note on the Asymmetry of Bipolar Sunspot Groups **59**, 43
- KRAT, V. A., V. N. KARPINSKY, and L. M. PRAVDJUK / On the Sunspot Structure **26**, 305
- KRAT, V. A., V. I. MAKAROV, and K. S. TAVASTSHERNA / On the Large Scale Brightness Fluctuations in the Solar Atmosphere **68**, 237
- KRAT, V. A., *see* Abdusamatov, H. I.
- KRAT, V. A., *see* Abdusamatov, H. I.
- KRAT, V. A., *see* Kassinsky, V. V.
- KRAUSE, F. and G. RÜDIGER / On the Turbulent Decay of Strong Magnetic Fields and the Development of Sunspot Areas **42**, 107
- KRAUSHAAR, W. L., G. W. CLARK, and G. GARMIRE / OSO-III High-Energy Gamma-Ray Experiment **6**, 228
- KREPLIN, R. W. and R. G. TAYLOR / Localization of the Source of Flare X-Ray Emission during the Eclipse on 7 March, 1970 **21**, 452
- KREPLIN, R. W., *see* Dere, K. P. *et al.*
- KREPLIN, R. W., *see* Horan, D. M.
- KREPLIN, R. W., *see* Horan, D. M. *et al.*
- KREPLIN, R. W., *see* Kahler, S. W.
- KREPLIN, R. W., *see* Kane, S. R. *et al.*
- KREPLIN, R. W., *see* Meekins, J. F. *et al.*
- KRIEGER, A. S. / The Decay of Coronal Loops Brightened by Flares and Transients **56**, 107
- KRIEGER, A. S., L. D. DE FEITER, and G. S. VAIANA / Evidence for Magnetic Energy Storage in Coronal Active Regions **47**, 117
- KRIEGER, A. S., A. F. TIMOTHY, and E. C. ROELOF / A Coronal Hole and Its Identification as the Source of a High Velocity Solar Wind Stream **29**, 505
- KRIEGER, A., F. PAOLINI, G. S. VAIANA, and D. WEBB / Results from OSO-IV: the Long Term Behavior of X-Ray Emitting Regions **22**, 150
- KRIEGER, A. S., *see* Davis, J. M.
- KRIEGER, A. S., *see* Davis, J. M.
- KRIEGER, A. S., *see* Davis, J. M. *et al.*
- KRIEGER, A. S., *see* Evans, K. D. *et al.*
- KRIEGER, A. S., *see* Frankenthal, S.
- KRIEGER, A. S., *see* Golub, L. *et al.*
- KRIEGER, A. S., *see* Golub, L. *et al.*
- KRIEGER, A. S., *see* Kahler, S.
- KRIEGER, A. S., *see* Landini, M. *et al.*
- KRIEGER, A. S., *see* Little-Marenin, I. R. *et al.*
- KRIEGER, A. S., *see* McIntosh, P. S. *et al.*
- KRIEGER, A. S., *see* Nolte, J. T. *et al.*
- KRIEGER, A. S., *see* Pallavicini, R. *et al.*
- KRIEGER, A. S., *see* Petrasso, R. D. *et al.*
- KRIEGER, A. S., *see* Poletto, G. *et al.*
- KRIEGER, A. S., *see* Solodyna, C. V. *et al.*
- KRIEGER, A. S., *see* Švestka, Z. *et al.*
- KRIEGER, A. S., *see* Timothy, A. F. *et al.*
- KRIEGER, A. S., *see* Vaiana, G. S. *et al.*
- KRIEGER, A. S., *see* Webb, D. F. *et al.*
- KRIMIGIS, S. M., *see* Armstrong, T. P. *et al.*
- KRIMIGIS, S. M., *see* Sarris, E. T.
- KRINBERG, I. A. and R. B. TEPLITSKAJA / On the Adjustment of Outer Solar Layer Models **25**, 305

- KRISHAN, V. / Conductivity of an Ion-Acoustically Turbulent Plasma **59**, 29
- KRISHAN, V. / Excitation of High- m Tearing Modes at the Solar Flare Site **80**, 313 (*Research Note*)
- KRISHAN, V. / Spatial Profiles of Lines in Active Region Loops **88**, 155
- KRISHAN, V. / Statistical Mechanics of Velocity and Magnetic Fields in Solar Active Regions **95**, 269
- KRISHAN, V. / Two-Dimensional Pressure Structure of a Coronal Loop **97**, 183
- KRISHAN, V. and C. SIVARAM / Radio Emission by Parallel Acceleration Mechanism **84**, 125
- KRISHAN, V., K. R. SUBRAMANIAN, and CH. V. SASTRY / Observations and Interpretation of Solar Decameter Type IIIb Radio Bursts **66**, 347
- KRISHAN, V., *see* Sastry, Ch. V. *et al.*
- KRISHAN, V., *see* Subramanian, K. R. *et al.*
- KRISHNA SWAMY, K. S. / Equivalent Width of Molecular Lines in Stars. II: Lines of (A-X) Band of CO and SiO in the Solar Atmosphere **47**, 469
- KŘIVSKÝ, L. / A Remark on 'Effects associated with the Sector Boundary Crossing on July 9, 1966', by Z. Švestka **4**, 373 (*Research Note*)
- KŘIVSKÝ, L. / On the Origin of Type II and IV Radio Sources during Flares Observed by a Radioheliograph on 80 MHz **9**, 194 (*Research Note*)
- KŘIVSKÝ, L. / Long-Term Fluctuations of Solar Activity during the Last Thousand Years **93**, 189
- KŘIVSKÝ, L. and V. OBRIDKO / Large-Scale Mutual Relations of Spot Groups in Proton Complex **6**, 418
- KŘIVSKÝ, L., *see* Gopasyuk, S.
- KROGSTAD, R., *see* Petrasso, R. D. *et al.*
- KROPOTKIN, A. P., *see* Alexeev, I. I. *et al.*
- KRÜGER, A. / On the S- and B-Components of Solar Radio and X-Emission and Their Relationships to Energetic Solar Events **27**, 217
- KRÜGER, A. and B. TRINKKELER / On the Temporal Distribution of Type IV Burst-Active Centres over the Solar Cycle **24**, 233 (*Research Note*)
- KRÜGER, A., *see* Akhmedov, Sh. B. *et al.*
- KRÜGER, A., *see* Akinyan, S. T. *et al.*
- KRÜGER, A., *see* Böhme, A.
- KRÜGER, A., *see* Böhme, A. *et al.*
- KRÜGER, A., *see* Böhme, A. *et al.*
- KRÜGER, A., *see* Chertok, J. M. *et al.*
- KRÜGER, A., *see* Tanaka, H. *et al.*
- KRUTOV, V. V., V. V. KORNEEV, U. I. KAREV, V. M. LOMKOVA, S. N. OPARIN, A. M. URNOV, I. A. ZHITNIK, G. BROMBOSZCZ, M. SIARKOWSKI, J. SYLWESTER, and S. VASHA / Analysis of the High-Resolution X-Ray Spectra Obtained aboard the Intercosmos 16 Satellite. II. Identification of the Lines in the 9.14–9.33 Å Spectral Region **73**, 105
- KRUTOV, V. V., *see* Aglizki, E. V. *et al.*
- KRUTOV, V. V., *see* Grineva, Yu. I. *et al.*
- KRUTOV, V. V., *see* Jakimiec, J. *et al.*
- KRUTOV, V. V., *see* Korneev, V. V. *et al.*
- KRUTOV, V. V., *see* Korneev, V. V. *et al.*
- KU, W. H.-M., *see* Parkinson, J. H. *et al.*
- KUBIČELA, A. / Some Long-Lived Supergranules **47**, 551 (*Research Note*)
- KUBIČELA, A. and M. KARABIN / Some Results of the Photospheric Large-Scale Velocity Research from Belgrade Observations **52**, 199
- KUBIČELA, A. and M. KARABIN / Apparent Yearly Precession of the Sun **54**, 505
- KUBIČELA, A. and M. KARABIN / Another View of Synodic Solar Rotation **84**, 389
- KUBOTA, J., T. TAMENAGA, I. KAWAGUCHI, and R. KITAI / The Brightening of Sunspot Umbra Observed on 29 October, 1972 **38**, 389
- KUCKES, A. F. and R. N. SUDAN / Coherent Synchrotron Deceleration and the Emission of Type II and III Solar Radio Bursts **17**, 194
- KUHN, J. R. and M. O'HANLON / Low- f 5-min Oscillation Observations **87**, 207
- KUHN, M. L., *see* Osherovich, V. A. *et al.*
- KUIPERS, J. / A Coherent Radiation Mechanism for Type IV dm Radio Bursts **36**, 157
- KUIPERS, J. / Generation of Intermediate Drift Bursts in Solar Type IV Radio Continua through Coupling of Whistlers and Langmuir Waves **44**, 173
- KUIPERS, J. and C. SLOTTJE / Fiber Bursts Concurrent with a Weak Noise Storm **46**, 247
- KUIPERS, J., *see* Benz, A. O.
- KUIPER, T. B. H. and JAY M. PASACHOFF / Detailed Correlation of Type III Radio Bursts with H α Activity. I: Active Region of 22 May 1970 **28**, 187
- KUIPER, T. B. H. / Detailed Comparison of Type III Radio Bursts with H α Activity. II: The Isolated Type III Activity of March and April, 1971 **33**, 461
- KUIPER, T. B. H., *see* Leblanc, Y. *et al.*
- KUKLIN, G. V., *see* Kopecký, M.
- KUKLIN, G. V., *see* Kukushkina, V. P.
- KUKLIN, G. V., *see* Turova, I. P. *et al.*
- KUKLIN, K. V., *see* Vainstein, S. I. *et al.*
- KUKUSHKINA, V. P., A. P. REZNIKOV, I. P. DRUZHININ, and G. V. KUKLIN / The Ex-

- perience of Using the Determined-Probabilistic Learning Information System (DPLIS) for Solar Activity Forecasting **5**, 118
- ULANDER, J. L. / Helium Emission from Model Flare Layers **48**, 287
- ULANDER, J. L., *see* Benson, R. S.
- ULIDZANISHVILI, V. I. / Dynamics of H α Spicules according to Spectral Observations at Various Heights of the Solar Chromosphere **66**, 251
- ULIDZANISHVILI, V. I. and G. M. NIKOLSKY / Properties of the Solar Chromosphere H α Spicules as Observed Spectrally **59**, 21
- ULIDZANISHVILI, V. I. and YU. D. ŽUGŽDA / On the Problem of Spicular Oscillations **88**, 35
- KUMAR, M. and U. NARAIN / On Heating of Solar Active Regions by Magnetic Energy Dissipation **95**, 69 (*Research Note*)
- KUMAR, M., *see* Narain, U.
- KUNDU, M. R. / Solar Active Regions at Millimeter Wavelengths **13**, 348
- KUNDU, M. R. / Solar Radio Emission at 1.2 mm Wavelength **21**, 130
- KUNDU, M. R. / Observations of Prominences at 3.5 Millimeter Wavelength **25**, 108
- KUNDU, M. R. / Spatial Characteristics of Microwave Bursts **86**, 205
- KUNDU, M. R. / High Spatial Resolution Microwave Observations of the Sun **100**, 491 (*Invited Review*)
- KUNDU, M. R. and C. E. ALISSANDRAKIS / Structure and Polarization of Active Region Microwave Emission **94**, 249
- KUNDU, M. R. and P. E. ANGERHOFER / Radio Interferometric Observations of Solar Bursts at 3.7 and 11.1 cm Wavelengths **64**, 159
- KUNDU, M. R. and W. C. ERICKSON / Meter and Decameter Wavelength Positions of Solar Bursts of July 31–August 7, 1972 **36**, 179
- KUNDU, M. R. and T. GERGELY / Polarization of Solar Active Regions at 3.5 Millimeter Wavelength **31**, 461
- KUNDU, M. R. and P. LANTOS / 3.5 mm Depression Features Associated with H α 'Disparitions Brusques' **52**, 393 (*Research Note*)
- KUNDU, M. R. and SOU-YANG LIU / Solar Active Regions at 9 and 3.5 mm Wavelengths under Disturbed Conditions **29**, 409
- KUNDU, M. R. and S.-Y. LIU / Comments on the Quiet Sun Brightness Distribution at 1.2 mm Wavelength **44**, 361 (*Research Note*)
- KUNDU, M. R. and S.-Y. LIU / Observations of a Coronal Hole at 85 GHz **49**, 267 (*Research Note*)
- KUNDU, M. R. and T. P. McCULLOUGH / Polarization of Solar Active Regions at 9.5 mm Wavelength **24**, 133
- KUNDU, M. R. and T. P. McCULLOUGH / Polarization Structure of a Solar Flare Region at 9.5 mm Wavelength **27**, 182
- KUNDU, M. R. and T. VELUSAMY / Fine Structure of the Sun at 1.3 cm Wavelength **34**, 125
- KUNDU, M. R., C. E. ALISSANDRAKIS, and S. W. KAHLER / A Comparison of Positions and Sizes of Sources of Centimeter and X-Ray Bursts **50**, 429
- KUNDU, M. R., R. H. BECKER, and T. VELUSAMY / Fine Structure of a Solar Active Region at 3.7 and 11.1 cm Wavelengths **34**, 185 (*Research Note*)
- KUNDU, M. R., W. C. ERICKSON, P. D. JACKSON, and J. FAINBERG / Positions and Motions of Solar Bursts at Decameter Wavelengths **14**, 394
- KUNDU, M. R., W. C. ERICKSON, T. E. GERGELY, M. J. MAHONEY, and P. J. TURNER / First Results from the Clark Lake Multifrequency Radioheliograph **83**, 385
- KUNDU, M. R., T. E. GERGELY, and W. C. ERICKSON / Observations of the Quiet Sun at Meter and Decameter Wavelengths **53**, 489
- KUNDU, M. R., T. E. GERGELY, and S. R. KANE / Positional Characteristics of Meter-Decameter Wavelength Bursts Associated with Hard X-Ray Bursts **79**, 107
- KUNDU, M. R., T. VELUSAMY, and R. H. BECKER / Fine Structure of a Solar Flare Region at 3.7 and 11.1 cm Wavelengths **34**, 217
- KUNDU, M. R., S.-Y. LIU, and T. P. McCULLOUGH / Brightness Distributions of the Sun at 33 and 37 GHz **51**, 321
- KUNDU, M. R., *see* Ahmad, I. A.
- KUNDU, M. R., *see* Alissandrakis, C. E.
- KUNDU, M. R., *see* Butz, M. *et al.*
- KUNDU, M. R., *see* Chiuderi Drago, F. *et al.*
- KUNDU, M. R., *see* Erickson, W. C. *et al.*
- KUNDU, M. R., *see* Erskine, F. T.
- KUNDU, M. R., *see* Gergely, T. E.
- KUNDU, M. R., *see* Gergely, T. E.
- KUNDU, M. R., *see* Gergely, T. E.
- KUNDU, M. R., *see* Gergely, T. E.
- KUNDU, M. R., *see* Gergely, T. E. *et al.*
- KUNDU, M. R., *see* Gergely, T. E. *et al.*
- KUNDU, M. R., *see* Kahler, S. W. *et al.*
- KUNDU, M. R., *see* Liu, S.-Y.
- KUNDU, M. R., *see* Melozzi, M. *et al.*
- KUNDU, M. R., *see* Rao, A. P.
- KUNDU, M. R., *see* Sawant, H. S. *et al.*
- KUNDU, M. R., *see* Schmahl, E. J. *et al.*
- KUNDU, M. R., *see* Schmahl, E. J. *et al.*
- KUNDU, M. R., *see* Schmahl, E. J. *et al.*
- KUNDU, M. R., *see* Shevgaonkar, R. K.

- KUNDU, M., *see* Stewart, R. T. *et al.*
 KUNDU, M. R., *see* Webb, D. F.
 KUNDU, M. R., *see* Webb, D. F. *et al.*
 KUNSTMANN, J. E. / Solutions of the Fokker-Planck Equation for the Early Time When the Diffusive Modes Are Not Yet Valid **59**, 395
 KUNZ, S., P. BOCHSLER, J. GEISS, K. W. OGILVIE, and M. A. COPLAN / Determination of Solar Wind Elemental Abundances from M/Q Observations during Three Periods in 1980 **88**, 359
 KUNZ, W. E., *see* Milkey, R. W. *et al.*
 KUPERUS, M. / On the Directional Dependence of the Emission of Acoustic Noise by Convective Turbulence in a Gravitational Atmosphere **22**, 257
 KUPERUS, M. / The Role of Plasma Turbulence in the Development of Solar Flares **47**, 79 (*Invited Review*)
 KUPERUS, M. / Solar Flares and Magnetospheric Substorms **47**, 361 (*Invited summary*)
 KUPERUS, Max and R. Grant ATHAY / On the Origin of Spicules in the Chromosphere-Corona Transition Region **1**, 361
 KUPERUS, Max and Einar TANDBERG-HANSEN / The Nature of Quiescent Solar Prominences **2**, 39
 KUPERUS, M. and W. VAN TEND / The Eruption of Active Region Filaments and Its Relation to the Triggering of a Solar Flare **71**, 125
 KUPERUS, M., *see* Bessey, R. J.
 KUPERUS, M., *see* Bruzek, A.
 KUPERUS, M., *see* Kattenberg, A.
 KUPERUS, Max, *see* Kleczek, J.
 KUPERUS, Max, *see* Kopp, Roger A.
 KUPERUS, M., *see* Raadu, M. A.
 KUPERUS, M., *see* Švestka, Z. *et al.*
 KUPERUS, M., *see* Van Bueren, H. G.
 KUPERUS, M., *see* Van Tend, W.
 KUPFERMAN, P., *see* Michalitsanos, A. G.
 KURFESS, J. D., *see* Forrest, D. J. *et al.*
 KURFESS, J. D., *see* Kane, S. R. *et al.*
 KUROCHKA, L. N. and L. B. MASLENNIKOVA / Determination of Electron Density in Plasma by the Number of the Extreme Resolved Line **11**, 33
 KUROCHKA, L. N. and L. B. RIBKO / The Last Observable Line in Hydrogen Emission Spectrum **57**, 319
 KUROCHKA, L. N. and V. V. TELNYUK-ADAMCHUK / Calculation of Line Profiles of Inhomogeneous Solar Formations **59**, 11
 KUROKAWA, H. / The Coronal Condensation Observed at the 1973 Eclipse **43**, 385
 KUROKAWA, H. / The Height of H α Flare Emitting Region **86**, 195 (*Extended Abstract*)
 KUROKAWA, H., I. KAWAGUCHI, Y. FUNAKOSHI, and Y. NAKAI / Morphological and Evolutionary Features of Ellerman Bombs **79**, 77
 KUROKAWA, H., K. NAKAYAMA, T. TSUBAKI, and M. KANNO / The Continuum of the Extreme Limb and the Chromosphere at the 1970 Eclipse **36**, 69
 KUROKAWA, H., *see* Ichimoto, K.
 KUROKAWA, H., *see* Kanno, M. *et al.*
 KUROKAWA, H., *see* Kanno, M. *et al.*
 KUROKAWA, H., *see* Tsubaki, T. *et al.*
 KURT, V. G., YU. I. LOGACHEV, and N. F. PISSARENKO / Coherent Propagation of Nonrelativistic Solar Electrons **53**, 157
 KURT, V. G., *see* Gombosi, T. *et al.*
 KURTHS, J., *see* Aurass, H. *et al.*
 KURTH, W. S., *see* Baumbach, M. M. *et al.*
 KURUCZ, R. L. / A Preliminary Theoretical Line-Blanketed Model Solar Photosphere **34**, 17
 KURUCZ, R. L., *see* Carbon, Duane
 KURUCZ, R. L., *see* Pedro, L. D. *et al.*
 KURUCZ, R. L., *see* Petro, L. D. *et al.*
 KUSEKI, R. A. and P. N. SWANSON / The Solar Brightness Temperature at Millimeter Wavelengths **48**, 41
 KUSOFFSKY, U. and G. PÄLSGÅRD / Multidirectional Scanning of Active Regions with a Slit-Jaw Spectrograph and a Solar Chromatograph. I: Description of the Method and Some Preliminary Results for the Flare Event of August 4th 1972 **30**, 121
 KUSOFFSKY, U., *see* Öhman, Y.
 KÜVELER, G. / Velocity Fields of Individual Supergranules **88**, 13
 KÜVELER, G., *see* Koch, A. *et al.*
 KUZHEVSKII, B. M., *see* Gombosi, T. *et al.*
 KUZHEVSKII, B. M., *see* Gombosi, T. *et al.*
 KUZNETSOV, V. D. and S. I. SYROVATSKII / On the Possibility of Observations of Current Sheets in Radio Band **69**, 361
 KUZNETSOV, V. D. e IV dm Radio Bursts **36**, 157
 KUZURMAN, P. A. and A. A. PAMYATNYKH / Solar Models with Low Opacity **82**, 223
 KYRÖLÄINEN, J., *see* Tuominen, J.
 KYRÖLÄINEN, J., *see* Tuominen, J.
 LABONTE, B. J. / H α Observations of the August 12, 1975 Type III-RS Bursts **50**, 201
 LABONTE, B. J. / A Measurement of the Helium D γ Profile with a Birefringent Filter **53**, 369
 LABONTE, B. J. / Activity in the Quiet Sun. I. Observations of Macrospicules in H α and D γ **61**, 283
 LABONTE, B. J. / The Orientation of the Solar Rotation Axis from Doppler Velocity Observations **69**, 177
 LABONTE, B. J. and R. HOWARD / Solar Rotation Measurements at Mount Wilson. II: Systematic

- Instrumental Effects and the Absolute Rotation Rate **73**, 3
- LABONTE, B. J. and R. HOWARD / Torsional Waves on the Sun and the Activity Cycle **75**, 161
- LABONTE, B. J. and R. HOWARD / The Magnetic Flux in the Quiet Sun Network **80**, 15
- LABONTE, B. J. and R. HOWARD / Solar Rotation Measurements at Mount Wilson. III: Meridional Flow and Limbshift **80**, 361
- LABONTE, B. J. and R. HOWARD / Are the High-Latitude Torsional Oscillations of the Sun Real? **80**, 373
- LABONTE, B., *see* Bruning, D. H.
- LABONTE, B. J., *see* Howard, R.
- LABONTE, B. J., *see* Howard, R. *et al.*
- LABONTE, B. J., *see* Howard, R. *et al.*
- LABONTE, B. J., *see* Topka, K. *et al.*
- LABRUM, N. R. / The Culgoora Solar Radio Observatory **27**, 496 (*Report from Solar Institute*)
- LABRUM, N. R., J. W. ARCHER, and C. J. SMITH / Solar Brightness Distribution at 3 mm Wavelength from Observations of the Eclipse of 1976 October 23 **59**, 331
- LABRUM, N. R., *see* Sheridan, K. V. *et al.*
- LABRUM, N. R., *see* Stewart, R. T.
- LABS, D. and H. NECKEL / Transformation of the Absolute Solar Radiation Data into the 'International Practical Temperature Scale of 1968' **15**, 79
- LABS, D. and H. NECKEL / The Solar Constant (A Compilation of Recent Measurements) **19**, 3
- LABS, D. and H. NECKEL / Remarks on the Convergence of Photospheric Model Conceptions and the Solar Quasi Continuum **22**, 64
- LABS, D., *see* Neckel, H.
- LABS, D., *see* Neckel, H.
- LABS, D., *see* Neckel, H.
- LABS, D., *see* Thuillier, G. *et al.*
- LACEY, L. B., *see* Fisher, R. R. *et al.*
- LACKNER, D. RUSSO, *see* Zirin, Harold
- LAFFINEUR, M., *see* Dollfus, A. *et al.*
- LAFLEUR, H., *see* Harrison, R. A. *et al.*
- LAFLEUR, H., *see* Švestka, Z. *et al.*
- LAFLEUR, H., *see* Van Beek, H. F. *et al.*
- LAKEY, J. R., *see* Kaufmann, P. *et al.*
- LAKHINA, G. S. / Regulation of Solar Wind Heat Flux by Ordinary Mode Instability **52**, 153
- LAKHINA, G. S. / Ion Cyclotron Instability in the Solar Wind **57**, 467
- LAKHINA, G. S. and B. BUTI / A Coherent Radiation Mechanism for Type IV Solar Radio Bursts **99**, 277
- LAKHINA, G. S., *see* Revathy, P.
- LAMB, F. K. / Line Formation in Magnetic Fields. Comments on the Role of Atomic Level Polarization **12**, 186
- LAMBERT, D. L. / A Simplified Model Solar Atmosphere **3**, 118
- LAMBERT, D. L. / $\lambda 4097.3$ N III Emission in the Chromospheric Spectrum? **16**, 336
- LAMBERT, D. L. and E. A. MALLIA / The Abundance of Chlorine in the Sun **5**, 181
- LAMBERT, D. L. and E. A. MALLIA / The Forbidden Line [Ca II] $\lambda 7323$ in the Fraunhofer Spectrum **10**, 311
- LAMBERT, D. L. and E. A. MALLIA / The Possible Presence of C₂ Lines in Sunspot Spectra **31**, 123
- LAMBERT, D. L. and J. P. SWINGS / Forbidden Carbon I Lines in the Solar Spectrum **2**, 34
- LAMBERT, D. L. E. A. MALLIA / Absolute Wavelengths of Fraunhofer Lines: Convective Motions in the Solar Photosphere and the Gravitational Red Shift **3**, 499
- LAMBERT, D. L., E. A. MALLIA, and B. WARNER / Forbidden Lines of Ca II in the Photospheric Spectrum **7**, 11
- LAMBERT, D. L., E. A. MALLIA, and J. BRAULT / On the Abundance of Chlorine in the Sun **19**, 289
- LAMBERT, D. L., E. A. MALLIA, and G. SMITH / Thallium in the Solar Atmosphere **26**, 250
- LAMBERT, D. L., *see* Chevalier, R. A.
- LAMBERT, D. L., *see* Chevalier, R. A.
- LAMBERT, D. L., *see* Swings, J. P.
- LANDECKER, P. B. and R. S. WOLFF / The X-Ray Line and Continuum Emission from a Solar Active Region **42**, 209
- LANDECKER, P. B., *see* Schmahl, E. J. *et al.*
- LANDECKER, P. B., *see* Vorpahl, J. A. *et al.*
- LANDECKER, T. L., *see* H. *et al.*
- LANDI DEGL'INNOCENTI, E. / Magneto-Optical Effects and the Interpretation of Linearly Polarized Intensity Distributions Observed with a Vector Magnetograph **63**, 237
- LANDI DEGL'INNOCENTI, E. / On the Effective Landé Factor of Magnetic Lines **77**, 285
- LANDI DEGL'INNOCENTI, E. / The Determination of Vector Magnetic Fields in Prominences from the Observations of the Stokes Profiles in the D₃ Line of Helium **79**, 291
- LANDI DEGL'INNOCENTI, E. L. / Polarization in Spectral Lines. I: A Unifying Theoretical Approach **85**, 3
- LANDI DEGL'INNOCENTI, E. L. / Polarization in Spectral Lines. II: A Classification Scheme for Solar Observations **85**, 33
- LANDI DEGL'INNOCENTI, E. / Polarization in Spectral Lines. I: A Unifying Theoretical Approach (*Errata*) **88**, 391 (**85**, 3)
- LANDI DEGL'INNOCENTI, E. / Polarization in Spectral Lines. II: A Classification Scheme for Solar Observations (*Errata*) **88**, 391 (**85**, 33)

- LANDI DEGL'INNOCENTI, E. / Polarization in Spectral Lines. III: Resonance Polarization in the Non-Magnetic, Collisionless Regime **91**, 1
- LANDI DEGL'INNOCENTI, E. / The Zeeman Pattern of Magnetic Lines and their Statistical Properties in the FeI Solar Spectrum **99**, 1
- LANDI DEGL'INNOCENTI, E. AND G. NOCI / A Search for Continuous Ultraviolet Opacity Sources in the Sun's Photosphere **29**, 287
- LANDI DEGL'INNOCENTI, E. and M. LANDI DEGL'INNOCENTI / Quantum Theory of Line Formation in a Magnetic Field **27**, 319
- LANDI DEGL'INNOCENTI, EGIDIO and MAURIZIO LANDI DEGL'INNOCENTI / A Perturbative Solution of the Transfer Equations for the Stokes Parameters in a Magnetic Field **31**, 299
- LANDI DEGL'INNOCENTI, E. and M. LANDI DEGL'INNOCENTI / On the Solution of the Radiative Transfer Equations for Polarized Radiation **97**, 239
- LANDI DEGL'INNOCENTI, E. and M. LANDOLFI / Thermodynamical Properties of Unresolved Magnetic Flux Tubes. I: A Diagnostic Method Based on Circular Polarization Ratios in Line Pairs **77**, 13
- LANDI DEGL'INNOCENTI, E. and M. LANDOLFI / Asymmetries in Stokes Profiles of Magnetic Lines: a Linear Analysis in Terms of Velocity Gradients **87**, 221
- LANDI DEGL'INNOCENTI, EGIDIO and MAURIZIO LANDI DEGL'INNOCENTI / Quantum Theory of Line Formation in a Magnetic Field (*Errata*) **29**, 528 (**27**, 319)
- LANDI DEGL'INNOCENTI, E., *see* Athay, R. G. *et al.*
- LANDI DEGL'INNOCENTI, E., *see* Landolfi, M.
- LANDI DEGL'INNOCENTI, E., *see* Landolfi, M. *et al.*
- LANDI DEGL'INNOCENTI, E., *see* Querfeld, C. W. *et al.*
- LANDI DEGL'INNOCENTI, M., *see* Landi Degl'innocenti, E.
- LANDI DEGL'INNOCENTI, M., *see* Landi Degl'Innocenti, E.
- LANDINI, M. / Determination of the Solar X-Ray Spectrum by Using the Atmospheric Extinction **2**, 106
- LANDINI, M. and B. C. MONSIGNORI FOSSI / Soft X-Ray Emitting Regions in the Solar Corona **17**, 379
- LANDINI, M. and B. C. MONSIGNORI FOSSI / A Simple Formula for the Total Dielectronic Recombination Coefficient **20**, 322
- LANDINI, M., B. C. MONSIGNORI FOSSI, G. POLETTI, and G. L. TAGLIAFERRI / The 44-66 Å Flux during the Ascending Period of the Solar Cycle No. 20 (1964-67) **5**, 546
- LANDINI, M., B. C. MONSIGNORI FOSSI, G. POLETTI, D. RUSSO, and G. L. TAGLIAFERRI / X-Ray Fluxes from Solrad 9 Satellite **13**, 226 (*Research Note*)
- LANDINI, M., B. C. MONSIGNORI FOSSI, and R. PALLAVICINI / Thermal and Non-Thermal Soft X-Ray Bursts **27**, 164
- LANDINI, M., B. C. MONSIGNORI FOSSI and R. PALLAVICINI / Non-Thermal Ionization and Recombination Processes during Solar Flares **29**, 93
- LANDINI, M., B. C. MONSIGNORI FOSSI, A. KRIEGER, and G. S. VAIANA / The Coronal Structure of Active Regions **44**, 69
- LANDINI, M., B. C. MONSIGNORI FOSSI, and R. PALLAVICINI / Thermal Models of Flaring Region Based on Observations by the SOLRAD 10 Satellite **44**, 101
- LANDMAN, D. A. / Proton Collisional Excitation in the Ground Configuration of Fe^{+12} **30**, 371
- LANDMAN, D. A. / Proton Collisional Excitation in the Ground Configuration of Fe^{+12} , II **31**, 81
- LANDMAN, D. A. / A Study of the He λ 10830 Line Emission from Quiescent Prominences **50**, 383
- LANDMAN, D. A. and G. D. FINN / Radiation Transfer through a Model Sunspot **63**, 221
- LANDMAN, D. A. and M. MONGILLO / The Middle Balmer Decrement in Quiescent Prominences **63**, 87
- LANDMAN, D. A. and J. T. TAKUSHI / Additional Measurements of the High-Latitude Sunspot Rotation Rate **73**, 379 (*Research Note*)
- LANDMAN, D. A., *see* Finn, G. D.
- LANDMAN, D. A., *see* Illing, R. M. E. *et al.*
- LANDMAN, D. A., *see* Pasachoff, J. M.
- LANDMAN, DONALD A. / Proton Collisional Excitation in the Ground Configuration of Fe^{+12} (*Errata*) **47**, 636 (**30**, 371)
- LANDOLFI, M. and E. LANDI DEGL'INNOCENTI / Polarization of the Sodium D Lines in Prominences **98**, 53
- LANDOLFI, M., E. LANDI DEGL'INNOCENTI, and P. ARENA / On the Diagnostic of Magnetic Fields in Sunspots through the Interpretation of Stokes Parameters Profiles **93**, 269
- LANDOLFI, M., *see* Landi Degl'Innocenti, E.
- LANDOLFI, M., *see* Landi Degl'Innocenti, E.
- LANG, K. R. / High Resolution Interferometry of the Sun at 3.7 cm Wavelength **36**, 351
- LANG, K. R. / High Resolution Polarimetry of the Sun at 3.7 and 11.1 cm Wavelengths **52**, 63

- ANG, K. R. / Ubiquitous Chromospheric Structures Observed in the Quiet Sun at Millimeter and Centimeter Wavelengths **58**, 337
- ANG, K. R., *see* Chiuderi-Drago, F. *et al.*
- ANTOS, P. / A Model for the Chromospheric-Corona Transition Region Based on Radio Observations and on Hydrodynamical Conservation Equations **22**, 387
- ANTOS, P. and A. RAOULT / Prominences at Centimetric and Millimetric Wavelengths. II: Radio Diagnostic of the Prominences **66**, 275
- ANTOS, P., E. FÜRST, and W. HIRTH / The Variation of Solar Brightness at the Extreme Solar Limb at Centimetre Radio Waves **63**, 271 (*Research Note*)
- ANTOS, P., *see* Alissandrakis, C. E. *et al.*
- ANTOS, P., *see* Avignon, Y. *et al.*
- ANTOS, P., *see* Ceballos, J. C.
- ANTOS, P., *see* Chambe, G.
- ANTOS, P., *see* Fürst, E. *et al.*
- ANTOS, P., *see* Kundu, M. R.
- ANTOS, P., *see* Raoult, A. *et al.*
- ANTOS-JARRY, M. F. / Coronal Magnetic Field Patterns Inferred from Radio Observations **15**, 40
- ANZEROTTI, L. J. / Discussion of Paper 'A Comparison of Energetic Storm Protons to Halo Protons' **11**, 145 (*Research Note*)
- ANZEROTTI, L. J. and M. F. ROBBINS / Solar Flare Alpha to Proton Ratio Changes Following Interplanetary Disturbances **10**, 212
- APORTE, C., *see* Kaufmann, P. *et al.*
- ARIONOV, N. V., *see* Merkulenko, V. E. *et al.*
- LA ROSA, G., *see* Belvedere, G. *et al.*
- ASER, M. R., *see* Lemen, J. R. *et al.*
- CATEGAN, A. H. and A. H. JARRETT / Observed Mass Motions in Limb Prominences **76**, 323
- ATOUR, J., J. TOOMRE, and J.-P. ZAHN / Non-linear Anelastic Modal Theory for Solar Convection **82**, 387 (*Invited Review*)
- AUFER, J., *see* Deubner, F.-L.
- ATOVIČKA, J., *see* Trška,
- AVAKARE, P. J., *see* Daniel, R. R.
- LAWRENCE, J. K. / The Spatial Distribution of Umbral Dots and Granules **87**, 1
- LAWRENCE, J. K., G. A. CHAPMAN, and A. D. HERZOG / Properties of Flares Observed in the Mg I b_2 Line at 5172 Å **89**, 341
- LAWRENCE, J. K., *see* Mayfield, E. B.
- LAWRENCE, J. K., *see* Osherovich, V. A.
- LAW, Sara E., *see* Staelin, David H.
- LAZAREFF, B., *see* Zirin, H.
- LAZARUS, A. J., K. W. OGILVIE, and L. F. BURLAGA / Interplanetary Shock Observations by Mariner 5 and Explorer 34 **13**, 232
- LAZARUS, A. J., *see* Nolte, J. T. *et al.*
- LAZARUS, Alan J., *see* Siscoe, George L.
- LEACH, J., A. GORDON EMSLIE, and VAHÉ PETROSIAN / The Interpretation of Hard X-Ray Polarization Measurements in Solar Flares **96**, 331
- LEACH, J., *see* Gu, X. M. *et al.*
- LEBEDEV, N. N. and V. M. GRIGORJEV / A New Type of a Photoelectric Magnetograph **48**, 417
- LEBLANC, Y. and J. DE LA NOË / Solar Radio Type III Bursts and Coronal Density Structures **52**, 133
- LEBLANC, Y., A. LECACHEUX, and A. BOISCHOT / Empirical Study of the Conversion of the Plasma Waves into Transverse Waves **46**, 501
- LEBLANC, Y., T. B. H. KUIPER, and S. F. HANSEN / Coronal Density Structures in Regions of Type III Activity **37**, 215
- LEBLANC, Y., J. L. LEROY, and P. PECANTET / Quiet Corona Density Model for the Last Maximum of Solar Activity **31**, 343
- LECACHEUX, A., *see* Leblanc, Y. *et al.*
- LEE, L. C., *see* Kan, J. R. *et al.*
- LEE, R. H., *see* Baur, T. G. *et al.*
- LEE, R. H., *see* Eddy, J. A. *et al.*
- LEE, T. S. and W. W. BALWANZ / Singular Variations near the Contact Discontinuity in the Theory of Interplanetary Blast Waves **4**, 240
- LEER, E. / Heated Solar Atmosphere: a One-Fluid Model **35**, 467
- LEER, E. and W. I. AXFORD / A Two-Fluid Solar Wind Model with Anisotropic Proton Temperature **23**, 238
- LEER, E. and TH. E. HOLZER / Constraints on the Solar Coronal Temperature in Regions of Open Magnetic Field **63**, 143
- LEER, E., *see* Habbal, S. R. *et al.*
- LEGG, T. H., *see* Convington, A. E.
- LEGRAND, J. P. and P. A. SIMON / Ten Cycles of Solar and Geomagnetic Activity **70**, 173
- LEGRAND, J. P., *see* Heristchi, Dj. *et al.*
- LEIBACHER, J. W., *see* Acton, L. W. *et al.*
- LEIBACHER, J. W., *see* Wolfson, C. J. *et al.*
- LEIBACHER, M. and H. ZIRIN / Rotation in Prominences **91**, 259
- LEIFSEN, T., *see* Andersen, B. N. *et al.*
- LEIGHTON, R. B., *see* Schatten, Kenneth H. *et al.*
- LEIKOV, N. G., *see* Galper, A. M. *et al.*
- LEMAIRE, P. / H and K Ca II Plage Profiles Obtained with a Fourier Transform Spectrometer **88**, 31 (*Research Note*)
- LEMAIRE, P., M. CHOUQU-BRUSTON, and J.-C. VIAL / Simultaneous H and K Ca II, h and k Mg II, L α and L β H I Profiles of the April 15, 1978 Solar Flare Observed with the OSO-8/L.P.S.P.

Experiment 90, 63

- LEMAIRE, P., *see* Kneer, F. *et al.*
- LEMAIRE, P., *see* Vial, I. C. *et al.*
- LEMAIRE, P., *see* Vial, J. C. *et al.*
- LEMEN, J. R., G. A. CHANAN, J. P. HUGHES, M. R. LASEK, R. NOVICK, I. T. ROCHWARGER, M. SACKSON, and L. J. TRAMIEL / A Solar Flare X-Ray Polarimeter for the Space Shuttle **80**, 333
- LEMEN, J. R., *see* Parkinson, J. H. *et al.*
- LEMONS, D. S., W. C. FELDMAN, and S. P. GARY / Stability of the Ordinary Mode to an Electron Heat Flux **59**, 387
- LÉNA, Pierre J. / Observations of the Center-to-Limb Variation of the Solar Brightness in the Far Infrared (10 to 25 Microns) **3**, 28
- LÉNA, Pierre J. / Far Infrared Observation of a Sunspot **7**, 217
- LÉNA, Pierre J., *see* Eddy, John A.
- LÉNA, P. J., *see* Turon, P. J.
- LÉNA, P., *see* Turon, P. J.
- LEPARSKAS, H., *see* Roy, J.-René
- LÉPINE, J. R. D., *see* Kaufmann, P. *et al.*
- LERCHE, I. / Some Calculations Bearing on the Heating and Cooling of Quiescent Prominences **63**, 93
- LERCHE, I. and B. C. LOW / A Self-Consistent Model of a Thermally Balanced Quiescent Prominence in Magnetostatic Equilibrium in a Uniform Gravitational Field **53**, 385
- LERCHE, I. and B. C. LOW / On the Equilibrium of a Cylindrical Plasma Supported Horizontally by Magnetic Fields in Uniform Gravity **67**, 229
- LERCHE, I. and B. C. LOW / A Variational Approach to the Question of Temporal Stability of Equilibrium Models of Solar Prominences. I: The Formal Theory **69**, 327
- LEROY, Jean-Louis / Photométries comparées des émissions de l'hydrogène et de l'hélium dans les régions externes des protubérances **7**, 221
- LEROY, J.-L. / Emissions 'froides' dans la couronne solaire **25**, 413
- LEROY, J. L. / Polarisation de la lumière, au bord de disque solaire, dans le proche infrarouge **36**, 81 (*Research Note*)
- LEROY, J.-L. / Simultaneous Measurements of the Polarization in H α and D₃ Prominence Emissions **71**, 285
- LEROY, J. L. and J. RÖSCH / Un programme de photographie en lumière monochromatique des émissions coronales pour la période 1973-1976 **15**, 383
- LEROY, J. L., P. POULAIN, et B. FORT / Gradient de densité et température dans la basse couronne **32**, 131
- LEROY, J. L., V. BOMMIER, and S. SAHAL-BRÉCHOT / The Magnetic Field in the Prominences of the Polar Crown **83**, 135
- LEROY, J. L., *see* Leblanc, Y. *et al.*
- LEROY, J. L., *see* Mouradian, Z.
- LEROY, J.-L., *see* Noens, J.-C.
- LETFUS, V., A. TLAMICHA, and B. VALNÍČEK / Occultation of a Noise Storm Source during the Partial Solar Eclipse of May 20, 1966 **1**, 47
- LEUTWYLER, H., *see* Geiss, J. *et al.*
- LEVIN, B. N. / A Quasi-One-Dimensional Velocity Regime of Super-Thermal Electron Stream Propagation through the Solar Corona **92**, 317
- LEVIN, B. N. and V. O. RAPOPORT / On the Origin of Continuum Emission during Decametric Solar Noise Storms **96**, 371
- LEVINE, R. H. / The Representation of Magnetic Field Lines from Magnetograph Data **44**, 363
- LEVINE, R. H. / Evidence for Opposed Currents in Active Region Loops **46**, 159
- LEVINE, R. H. / Evolution of Photospheric Magnetic Field Patterns during Skylab **54**, 32
- LEVINE, R. H. / EUV Structure of a Small Flare **5**, 185
- LEVINE, R. H. / Spatial Distribution of Large Scale Solar Magnetic Fields and their Relation to the Interplanetary Magnetic Field **62**, 277
- LEVINE, R. H. / Open Magnetic Fields and the Solar Cycle. I: Photospheric Sources of Open Magnetic Flux **79**, 203
- LEVINE, R. H. and G. J. WITHBROE / Physics of an Active Region Loop System **51**, 83
- LEVINE, R. H. and M. D. ALTSCHULER / Representation of Coronal Magnetic Fields Including Currents **36**, 345
- LEVINE, R. H. and J. P. PYE / The Coronal and Transition Region Temperature Structure of the Solar Active Region **66**, 39
- LEVINE, R. H., M. SCHULZ, and E. N. FRAZIER / Simulation of the Magnetic Structure of the Inner Heliosphere by Means of a Non-Spherical Source Surface **77**, 363
- LEVINE, R. H., *see* Altschuler, M. D. *et al.*
- LEVINE, R. H., *see* Jackson, B. V.
- LEVINE, R. H., *see* Schatten, K. H. *et al.*
- LEVINE, R. H., *see* Švestka, Z. *et al.*
- LEVY, G. S., *see* Stelzried, C. T. *et al.*
- LEWIS, E. L., L. F. MCNAMARA, and H. F. MICHELS / The Broadening of the Sodium D-Lines **23**, 287 (*Research Note*)
- LEZNIAK, J. A. and W. R. WEBBER / Evidence for the Existence of Adiabatic Energy Loss in Interplanetary Space from Observations of the Decay of the February 25-March 2, 1969 Series of Solar Cosmic Ray Events **26**, 474
- LEZNIAK, J. A. and W. R. WEBBER / Implications

of the Reported Low Energy Electron Gradients
34, 477

AGVAZHAY, CH., *see* Yakovkin, N. A. *et al.*

B. S., *see* Gu, X. M. *et al.*

S. C., *see* Gu, X. M. *et al.*

S. C., *see* Takakura, T. *et al.*

Z., *see* Gu, X. M. *et al.*

BBRECHT, K. G. / Practical Considerations for
the Generation of Large Order Spherical Har-
monics **99**, 371 (*Research Note*)

EBENBERG, D. H. / Coronal Emission Line
Profile Observations at Total Solar Eclipses. I:
Airborne Instrumentation and Results **44**, 331

EBENBERG, D. H., R. J. BESSEY, and B. WATSON
/ Observed Coronal Temperatures at 1.37 R, in
the Region of a Helmet Structure **40**, 387

EBENBERG, D. H., R. J. BESSEY, and B. WATSON
/ Coronal Emission Line Profile Observations at
Total Solar Eclipses. II: 30 May 1965 Results,
Deconvolution and Interpretation **44**, 345

EBENBERG, D. H., R. J. BESSEY, and B. WATSON
/ Evidence for Temporal Variations of Coronal
Emission Line Intensity and Profile **50**, 109

EBENBERG, D. H., *see* Bessey, R. J.

EDLER, R., *see* Deubner, Franz-Ludwig

GGETT, M. and H. ZIRIN / Naked Sunspots **84**,
3

GGETT, M. and H. ZIRIN / Emerging Flux in
Active Regions **97**, 51

GGETT, M., *see* Zirin, H. *et al.*

KINE, O. B., *see* Chambon, G. *et al.*

LJE, P. B., *see* Andersen, B. N. *et al.*

LLIEQUIST, C. G., M. D. ALTSCHULER, and Y.
NAKAGAWA / The Dynamics of a Toroidal
Magnetic Ring **20**, 348

LLIEQUIST, Carl G., *see* Altschuler, Martin D.

IN, HUA-AN, R. P. LIN, and S. R. KANE / The
Super-Hot Thermal Component in the Decay
Phase of Solar Flares **99**, 263

IN, R. P. and K. A. ANDERSON / Electrons > 40
keV and Protons > 500 keV of Solar Origin **1**,
466

IN, R. P. / The Emission and Propagation of 40
keV Solar Flare Electrons. I: The Relationship
of 40 keV Electron to Energetic Proton and
Relativistic Electron Emission by the Sun **12**,
266

IN, R. P. / The Emission and Propagation of 40
keV Solar Flare Electrons. II: The Electron
Emission Structure of Large Active Regions **15**,
453

IN, R. P. (Ed.) / Proceedings of the Work-
shop on Mechanisms for Solar Type III Radio
Bursts, held at Space Sciences Laboratory, Uni-
versity of California, Berkeley, California, 8 and
9 May 1975 **46**, 433

LIN, R. P. / Energetic Particles in Space **67**, 393

LIN, R. P. / Energetic Solar Electrons in the Inter-
planetary Medium **100**, 537 (*Invited Review*)

LIN, R. P. and H. S. HUDSON / 10–100 keV
Electron Acceleration and Emission from Solar
Flares **17**, 412

LIN, R. P. and H. S. HUDSON / Non-Thermal
Processes in Large Solar Flares **50**, 153

LIN, R. P., S. W. KAHLER, and E. C. ROELOF /
Solar Flare Injection and Propagation of Low-
Energy Protons and Electrons in the Event of
7-9 July, 1966 **4**, 338

LIN, R. P., *see* Alvarez, H. *et al.*

LIN, R. P., *see* Alvarez, H. *et al.*

LIN, R. P., *see* Datlowe, D. W.

LIN, R. P., *see* De Pan, L. *et al.*

LIN, R. P., *see* Dodson, Helen W.

LIN, R. P., *see* Fitzenreiter, R. J. *et al.*

LIN, R. P., *see* Hudson, H. S. *et al.*

LIN, R. P., *see* Kane, S. R.

LIN, R. P., *see* Kellogg, P. J.

LIN, R. P., *see* Lin, Hua-An *et al.*

LINDBLAD, B. A. / Preferred Bartels Days of
High-Speed Plasma Streams in the Solar Wind
74, 187

LINDBLAD, B. A. and H. LUNDSTEDT / A Cata-
logue of High-Speed Plasma Streams in the
Solar Wind **74**, 197

LINDBLAD, B. A. and H. LUNDSTEDT / A Cata-
logue of High-Speed Plasma Streams in the
Solar Wind 1975–78 **88**, 377

LINDGREN, B. and H. P. PALENIUS / New
Measurements of the Se I Resonance Lines **53**,
347

LINDGREN, S. T. / The Solar Particle Events of
May 23 and May 28, 1967 **5**, 382

LINDSEY, C. A. / Infrared Continuum Obser-
vations of Five-Minute Oscillations **52**, 263

LINGENFELTER, R. E. / Solar Flare Optical,
Neutron and Gamma-Ray Emission **8**, 341

LINGENFELTER, R. E., *see* Ramaty, Reuven

LINGENFELTER, R. E., *see* Ramaty, R. *et al.*

LINK, F. / Solar Cycles between 1540 and 1700 **59**,
175 (*Research Note*)

LINNEY, A. D., *see* Eyles, C. J. *et al.*

LINSKY, J. L. / Can the Ion H_3^+ Account for
Missing Opacity in the Solar Ultraviolet? **11**,
198

LINSKY, J. L. / On the Relative Residual Intensities
of the Calcium H and K Lines **11**, 355

LINSKY, J. L. / A Recalibration of the Quiet Sun
Millimeter Spectrum Based on the Moon as an
Absolute Radiometric Standard **28**, 409

LINSKY, J. L. / Nonradiative Activity across the
H-R Diagram: Which Types of Stars are Solar-
Like? **100**, 333 (*Invited Review*)

- LINSKY, J. L., R. G. TESKE, and C. W. WILKINSON / Observations of the Infrared Triplet of Singly Ionized Calcium **11**, 374
- LINSKY, J. L., *see* Kelch, W. L.
- LINSKY, J. L., *see* Machado, M. E.
- LINSKY, J. L., *see* Mount, G. H.
- LINSKY, J. L., *see* Shine, R. A.
- LINSKY, J. L., *see* Shine, R. A.
- LINSKY, J. L., *see* Shine, R. A.
- LIPA, B. / Pulsations in Solar Hard X-Ray Bursts **57**, 191
- LISZKA, L. / Measurements of Line-of-Sight Velocities in Prominences **14**, 354
- LISZKA, L., *see* Westin, H.
- LITES, B. W. / The Solar Neutral Iron Spectrum. II: Profile Synthesis of Representative Fe I Fraunhofer Lines **32**, 283
- LITES, B. W. / Steady Flows in the Chromosphere and Transition-Zone above Active Regions as Observed by OSO-8 **68**, 327
- LITES, B. W. / Transition-Zone Observations of Rapid Flare Events as Observed by OSO-8 **71**, 329
- LITES, B. W. / An Estimation of the Fluctuations in the Extreme Limb of the Sun **85**, 193
- LITES, B. W. / The Color Temperature of a Sunspot Penumbra **90**, 1
- LITES, B. W. and J. W. BRAULT / The Solar Neutral Iron Spectrum. I: Measurement of Solar Fe I Line Profiles from Center to Limb **30**, 283
- LITES, B. W. and E. R. HANSEN / Ultraviolet Brightenings in Active Regions as Observed from OSO-8 **55**, 347
- LITES, B. W. and D. MIHALAS / The H⁻ Equilibrium Using Coupled Rate Equations for H⁻, H, H⁺, H₂ and H₂⁺ **93**, 23
- LITES, B. W., E. C. BRUNER, JR., and C. J. WOLFSON / OSO-8 Observations of the Impulsive Phase of Solar Flares in the Transition-Zone and Corona **69**, 373
- LITES, B. W., S. L. KEIL, G. B. SCHARMER, and A. A. WYLLER / Steady Flows in Active Regions Observed with the He I 10830 Å Line **97**, 35
- LITES, B. W., *see* Athay, R. Grant *et al.*
- LITES, B. W., *see* Athay, R. G. *et al.*
- LITES, B. W., *see* Hyder, C. L.
- LITTLE-MARENIN, I. R., J. K. SILK, and A. S. KRIEGER / A Two-Temperature Model for the Flare of 5 September, 1973 **65**, 299
- LIU, SOU-YANG / Outflow of Chromospheric Emission Features from the Rim of a Sunspot **31**, 127 (*Research Note*)
- LIU, SOU-YANG / White Light Network in the Solar Photosphere **39**, 297 (*Research Note*)
- LIU, S.-Y. and E. v. P. SMITH / Characteristics of the Ca II K-Line Profiles in the Quiet Sun **24**, 30
- LIU, SOU-YANG and A. SKUMANICH / An Empirical Interpretation for the Time Evolution of the Ca II K Line **38**, 109
- LIU, S.-Y. and M. R. KUNDU / Differential Rotation of the Solar Atmosphere as Determined from Millimeter Data **46**, 15
- LIU, S. Y. and N. R. SHEELEY, Jr. / A Comparison of the Intensity Variations of the Photospheric and K Line Chromospheric Network with Time **20**, 282 (*Research Note*)
- LIU, S. Y., N. R. SHEELEY, Jr., and E. v. P. SMITH / Time Behavior of Ca II K₂ Spectral Features in Non-Magnetic Regions of the Solar Disk **22**, 289 (*Research Note*)
- LIU, S.-Y., *see* Kundu, M. R.
- LIVINGSTON, W. C. / Further Comments on the SPO Problem **3**, 448 (*Research Note*)
- LIVINGSTON, W. C. / Solar Rotation, 1966-68 **7**, 144 (*Research Note*)
- LIVINGSTON, W. C. / On the Differential Rotation with Height in the Solar Atmosphere **9**, 448
- LIVINGSTON, W. / Solar Rotation: Direct Evidence from Prominences for a Westward Wind **19**, 379
- LIVINGSTON, W. C. and J. HARVEY / Observational Evidence for Quantization in Photospheric Magnetic Flux **10**, 294
- LIVINGSTON, W. and R. MILKEY / Solar Rotation and The Photospheric Height Gradient **25**, 267
- LIVINGSTON, W. C. and F. Q. ORRALL / Magnetic Pukas and the Lifetime of the Supergranulation **39**, 301
- LIVINGSTON, W. and L. RAMSEY / Telluric Lines in the Vicinity of 5250 and 6562 Å **31**, 317 (*Research Note*)
- LIVINGSTON, W. and T. L. DUVAL, JR. / Solar Rotation, 1966-1978 **61**, 219
- LIVINGSTON, W. and L. WALLACE / Water Vapor and Fe 5250.2 **95**, 251 (*Research Note*)
- LIVINGSTON, W. C. and O. R. WHITE / Detection of Small Scale Structure in Metal Lines at the Extreme Solar Limb **39**, 289
- LIVINGSTON, W. C., *see* Bhatnagar, A. *et al.*
- LIVINGSTON, W., *see* Engvold, O.
- LIVINGSTON, W., *see* Engvold, O. *et al.*
- LIVINGSTON, W. C., *see* Giovanelli, R. G. *et al.*
- LIVINGSTON, W. C., *see* Harvey, J.
- LIVINGSTON, W. C., *see* Hildner, E.
- LIVINGSTON, W. C., *see* Howard, Robert
- LIVINGSTON, W. C., *see* Kirk, J. G.
- LIVINGSTON, W. C., *see* Sivaraman, K. R. *et al.*
- LIVSHITS, M. A., L. A. AKOMOV, I. L. BELKIN, and N. P. DYATEL / Helium Emission in the

- Middle Chromosphere **49**, 315
- VSHITS, M. A., O. G. BADALYAN, A. G. KOSOVICHEV, and M. M. KATSOVA / The Optical Continuum of Solar and Stellar Flares **73**, 269
- VSHITS, M. A., *see* Badalyan, O. G.
- VSHITS, M. A., *see* Badalyan, O. G. *et al.*
- VSHITS, M. A., *see* Tindo, I. P. *et al.*
- DACH, A. C. DE, *see* Sheeley, N. R. *et al.*
- OCÄNS, V., *see* Staude, J. *et al.*
- OCÄNS, V., *see* Žugžda, Y. D.
- OCÄNS, V., *see* Žugžda, Y. D. *et al.*
- OCÄNS, V., *see* Žugžda, Y. D. *et al.*
- OCKEY, G. W. A., *see* Carver, J. H. *et al.*
- OCKWOOD, G. W., *see* Suess, S. T.
- OCKWOOD, J. A. / Comments on 'Solar Activity, 27-Day Variation and Long-Term Modulation of Cosmic-Ray Intensity' by V. K. Balasubrahmanyam and D. Venkatesan **16**, 488 (*Research Note*)
- OCKWOOD, J. A., S. O. IFEDILI, and R. W. JENKINS / Upper Limit to the 1–20 MeV Solar Neutron Flux **30**, 183
- OGACHEV, YU. I., *see* Gombosi, T. *et al.*
- OGACHEV, YU. I., *see* Kurt, V. G. *et al.*
- OMKOVA, V. M., *see* Krutov, V. V. *et al.*
- ONDONO, C., *see* Stimets, R. W.
- ONG, K. S., *see* Parkinson, J. H. *et al.*
- OOMIS, Harold G., *see* Hansen, Richard T.
- ONONEN, J., *see* De Groot, T. *et al.*
- OPRESTO, J. C., R. D. CHAPMAN, and E. A. STURGIS / Solar Gravitational Redshift **66**, 245
- OPRESTO, J. C., *see* Pierce, A. K.
- ORAN, J. M., J. C. BROWN, E. CORREIA, and P. KAUFMANN / Interpretation of Fast Ripple Structure in Solar Impulsive Bursts **97**, 363
- LOUGHHEAD, R. E. / High-Resolution Photography of the Solar Chromosphere. III: The Fine Structure of a Class I Flare **4**, 422
- LOUGHHEAD, R. E. / High-Resolution Photography of the Solar Chromosphere. V: The Fibrils around Isolated Sunspots **5**, 489
- LOUGHHEAD, R. E. / High-Resolution Photography of the Solar Chromosphere. VII: Structure of the Low Chromosphere **10**, 71
- LOUGHHEAD, R. E. / High-Resolution Photography of the Solar Chromosphere. XI: H α Contrast Profiles of Mottles near the Limb **29**, 327
- LOUGHHEAD, R. E. / High-Resolution Photography of the Solar Chromosphere. XII: An Attempt to Measure Vertical Velocities of H α Bright Mottles beyond Limb **35**, 55
- LOUGHHEAD, R. E. / High-Resolution Photography of the Solar Chromosphere. XIV: Morphology of Sunspots at the Chromospheric Level **38**, 77
- LOUGHHEAD, R. E. and R. J. BRAY / Visibility of the Photospheric Granulation in Fe λ 6569.2 **45**, 35
- LOUGHHEAD, R. E. and E. J. TAPPERE / High-Resolution Photography of the Solar Chromosphere. IX: Limb Observations of High Spectral Purity **19**, 44
- LOUGHHEAD, R. E. and R. J. BRAY / Visibility of Magnetic Features on Filtergrams and Spectroheliograms **50**, 297
- LOUGHHEAD, R. E., R. J. BRAY, E. J. TAPPERE, and J. G. WINTER / High-Resolution Photography of the Solar Chromosphere. I: The 30-cm Refractor of the C.S.I.R.O. Solar Observatory **4**, 185
- LOUGHHEAD, R. E., C.-L. CHEN, and J.-L. WANG / High-Resolution Photography of the Solar Chromosphere. XVIII: Axial Tilt of H α Loops Observed on the Disk **92**, 53
- LOUGHHEAD, R. E., W. JIA-LONG, and R. A. DUNCAN / Optical Counterpart of the Radio Event Accompanying the 3B Flare of 13 May 1981 **83**, 257
- LOUGHHEAD, R. E., WANG JIA-LONG, and R. A. DUNCAN / Optical Counterpart of the Radio Event Accompanying the 3B Flare of 13 May 1981 (*Errata*) **88**, 391 (**83**, 257)
- LOUGHHEAD, R. E., *see* Bray, R. J.
- LOUGHHEAD, R. E., *see* Bray, R. J. *et al.*
- LOUGHHEAD, R. E., *see* Bray, R. J. *et al.*
- LOUGHHEAD, R. E., *see* Bray, R. J. *et al.*
- LOUGHHEAD, R. E., *see* Bray, R. J. *et al.*
- LOW, B. C. / On Magnetostatic Equilibrium in a Stratified Atmosphere **65**, 147
- LOW, B. C. / Exact State Equilibrium of Vertically Oriented Magnetic Flux Tubes. I: The Schlüter–Temesváry Sunspot **67**, 57
- LOW, B. C. / The Vertical Filamentary Structures of Quiescent Prominences **75**, 119
- LOW, B. C. / Magnetic Field Configurations Associated with Polarity Intrusion in a Solar Active Region. I. The Force-Free Fields **77**, 43
- LOW, B. C. / Some Recent Developments in the Theoretical Dynamics of Magnetic Fields **100**, 309 (*Invited Review*)
- LOW, B. C. and Y. Q. HU / The Energy of Electric Current Sheets. II: The Magnetic Free Energy and the Photospheric Magnetic Flux **84**, 83
- LOW, B. C., *see* Hagyard, M. *et al.*
- LOW, B. C., *see* Hu, W. R. *et al.*
- LOW, B. C., *see* Hu, Y. Q.
- LOW, B. C., *see* Lerche, I.
- LOW, B. C., *see* Lerche, I.

- LOW, B. C., *see* Lerche, I.
 LOW, B. C., *see* Lerche, I.
 LOW, F. J., *see* Noyes, R. W.
 LUCHKOV, B. I., *see* Galper, A. M. *et al.*
 LUCHKOV, B. I., *see* Volobuyev, S. A. *et al.*
 LUNDSTEDT, H. / A Measurement of the Magnetic Field Direction at the Site of Major Flares **81**, 293
 LUNDSTEDT, H., *see* Lindblad, B. A.
 LUNDSTEDT, H., *see* Lindblad, B. A.
 LUSIGNAN, B. B., *see* Chin, Y. C. *et al.*
 LUSTIG, G., *see* Balthasar, H. *et al.*
 LYKODIS, P. S., *see* Chen, C.-J.
 LYNCH, D. K., J. M. BECKERS, and R. B. DUNN / A Morphological Study of Solar Spicules **30**, 63
 MA SUNG, L. S., *see* Van Hollebeke, M. A. I. *et al.*
 MACAUSLAN, J. / A Self-Consistent Linear-Mode Model of Stellar Convection **99**, 55
 MACCAGNI, D., *see* Cherki, G. *et al.*
 MACCAGNI, D., *see* Dilworth, C. *et al.*
 MACCOMBIE, W. J. and D. M. RUST / Physical Parameters in Long-Decay Coronal Enhancements **61**, 69
 MACCOMBIE, W., *see* Rust, D. M. *et al.*
 MACHADO, M. E. / Evidence for the Photospheric Origin of the Flare Optical Continuum **17**, 389 (*Research Note*)
 MACHADO, M. E. / Analysis of Two Active Prominences **23**, 353
 MACHADO, M. E. / On the Origin of the Flare Optical Continuum **49**, 91 (*Research Note*)
 MACHADO, M. E. / Soft X-Ray Emission and Chromospheric Flares **60**, 341
 MACHADO, M. E. / Energetics of a Compact Flare **89**, 133
 MACHADO, M. E. / An Evidence of Flare Energy Buildup and Release Related to Magnetic Shear and Reconnection **99**, 159
 MACHADO, M. E., A. DUIJVEMAN, and B. R. DENNIS / Spatial and Temporal Evolution of Soft and Hard X-Ray Emission in a Solar Flare **79**, 85
 MACHADO, M. E., A. G. EMSLIE, and J. C. BROWN / The Structure of the Temperature Minimum Region in Solar Flares and Its Significance for Flare Heating Mechanisms **58**, 363
 MACHADO, M. E. and H. GROSSI GALLEGOS / Macroscopic Motions in Prominences. I: The Prominence of 26th March, 1971 **23**, 340
 MACHADO, M. E. and J. L. LINSKY / Flare Model Chromospheres and Photospheres **42**, 395
 MACHADO, M. E. and R. W. NOYES / Lyman Continuum Observations of Solar Flares **59**, 129
 MACHADO, M. E. and D. M. RUST / Analysis of the August 7, 1972 White Light Flare: Its Spectrum and Vertical Structure **38**, 499
 MACHADO, M. E. and J. R. SEIBOLD / Spectral Analysis of Sunspot Flares **29**, 75
 MACHADO, M. E., H. GROSSI GALLEGOS, and A. F. SILVA / The Loop Prominence of May 1, 1971 and Its Associated Effects **25**, 402
 MACHADO, M. E., B. V. SOMOV, M. G. ROVIRA, and C. DE JAGER / The Flares of April 1980. A Case for Flares Caused by Interacting Field Structures **85**, 157
 MACHADO, M. E., B. V. SOMOV, M. G. ROVIRA, and C. DE JAGER / The Flares of April 1980. A Case for Flares Caused by Interacting Field Structures (*Errata*) **89**, 233 (**85**, 157)
 MACHADO, M. E., M. G. ROVIRA, and C. V. SNEIBRUN / Hard X-Ray Imaging Evidence of Nonthermal and Thermal Burst Components **99**, 189
 MACHADO, M. E., *see* Boyer, R. *et al.*
 MACHADO, M. E., *see* De Jager, C. *et al.*
 MACHADO, M. E., *see* Duijveman, A. *et al.*
 MACHADO, M. E., *see* Emslie, A. G.
 MACHADO, M. E., *see* Grossi Gallegos, H.
 MACIEL, W. J., *see* Singh, P. D.
 MACKINNON, A. L. / Temporal Behaviour of the Thermal Model of Hard X-Ray Bursts **98**, 293
 MACKINNON, A. L., J. C. BROWN, and J. HAYWARD / Quantitative Analysis of Hard X-Ray 'Footpoint' Flares Observed by the Solar Maximum Mission **99**, 231
 MÄCKLE, R. / On the Energy Dissipation of Fast Hydromagnetic Shock Waves in the Solar Chromosphere **10**, 348
 MACNEICE, P., R. W. P. MCWHIRTER, D. S. SPICER, and A. BURGESS / A Numerical Model of a Solar Flare Based on Electron Beam Heating of the Chromosphere **90**, 357
 MACNEICE, P., R. PALLAVICINI, H. E. MASON, G. M. SIMNETT, E. ANTONUCCI, R. A. SHINE, D. M. RUST, C. JORDAN, and B. R. DENNIS / Multi-wavelength Analysis of a Well Observed Flare from SMM **99**, 167
 MACQUEEN, R. M. / The High Altitude Observatory of the National Center for Atmospheric Research Boulder, Colorado **68**, 411 (*Report from a Solar Institute*)
 MACQUEEN, R. M. / Coronal Mass Ejections: Acceleration and Surface Associations **95**, 351 (*Research Note*)
 MACQUEEN, R. M. and R. R. FISHER / The Kinematics of Solar Inner Coronal Transients **89**, 8
 MACQUEEN, R. M. and A. I. POLAND / Temporal Evolution of the Equatorial K-Corona **55**, 143
 MACQUEEN, R. M., A. CSOEKE-POECKH, E. HILDNER, L. HOUSE, R. REYNOLDS, A. STANGER, H. TE POEL, and W. WAGNER / The High Altitude Observatory Coronagraph/Photometer

- larimeter on the Solar Maximum Mission **65**, 91
- MACQUEEN, R. M., D. G. SIME, and J.-P. PICAT / The Properties of Coronal Voids **83**, 103
- MACQUEEN, Robert M., *see* Eddy, John A.
- MACQUEEN, R. M., *see* Dulk, G. A. *et al.*
- MACQUEEN, R. M., *see* Gosling, J. T. *et al.*
- MACQUEEN, R. M., *see* Gosling, J. T. *et al.*
- MACQUEEN, R. M., *see* Hildner, E. *et al.*
- MACQUEEN, R. M., *see* Munro, R. H. *et al.*
- MACQUEEN, R. M., *see* Pick, M. *et al.*
- MACQUEEN, R. M., *see* Poland, A. I.
- MACQUEEN, R. M., *see* Trotter, G.
- MACRIS, C. J. / On a Difference of the Chromospheric Background Intensity between the Equatorial and Polar Regions of the Sun **1**, 101
- MACRIS, C. J. / A Remarkable Eruptive Prominence on the Solar Disk on January 29, 1968 **5**, 361
- MACRIS, C. J. and C. A. ALISSANDRAKIS / Lifetime of the Dark and Bright Mottles of the Solar Chromosphere **11**, 59 (*Research Note*)
- MACRIS, C. J., *see* Alissandrakis, C. E.
- MACRIS, C. J., *see* Alissandrakis, C. E. *et al.*
- MACRIS, C. J., *see* Anastassiades, Michael
- MACRIS, C. J., *see* Banos, G. J.
- MACRIS, C. J., *see* Falciani, R. *et al.*
- MACRIS, Constantin J. / The Solar Service of the National Observatory of Athens **2**, 125 (*Report from Solar Institute*)
- MACRIS, C., *see* Koutchmy, S.
- MAGELSSSEN, G. R. and D. F. SMITH / Non-relativistic Electron Stream Propagation in the Solar Atmosphere and Type III Radio Bursts **55**, 211
- MAGNANT-CRIFO, F. / The Visible Spectrum of the Lower Corona during the Total Eclipse of May 30, 1965 **31**, 91
- MAGNANT-CRIFO, F. / Absolute Abundances and Distribution of Material versus Density and Temperature in a Coronal Condensation **39**, 141
- MAGNANT-CRIFO, F. / On the Identification of Fe IX and Ni XI Lines from Coronal Spectra **41**, 109
- MAGUN, A. and CH. MÄTZLER / On the Observation of Linear Polarization of Solar Microwave Bursts **30**, 489
- MAGUN, A., *see* Dulk, G. A. *et al.*
- MAGUN, A., *see* Flückiger, K. *et al.*
- MAGUN, A., *see* Schoechlin, W.
- MAGUN, A., *see* Wiehl, H. J. *et al.*
- MAHONEY, M. J., *see* Erickson, W. C. *et al.*
- MAHONEY, M. J., *see* Kundu, M. R. *et al.*
- MAHONEY, W. A., *see* Anderson, K. A.
- MAKAROV, V. I. / Do Prominences Migrate Equatorwards? **93**, 393 (*Research Note*)
- MAKAROV, V. I., M. P. FATIANOV, and K. R. SIVARAMAN / Poleward Migration of the Magnetic Neutral Line and the Reversal of the Polar Fields on the Sun. I: Period 1945–1981 **85**, 215
- MAKAROV, V. I. and K. R. SIVARAMAN / Poleward Migration of the Magnetic Neutral Line and the Reversal of the Polar Fields on the Sun. II: Period 1904–1940 **85**, 227
- MAKAROV, V. I., *see* Gnevyshev, M. N.
- MAKAROV, V. I., *see* Krat, V. A. *et al.*
- MAKAROV, V. I., *see* Žugžda, Yu. D.
- MAKAROVA, E. A., *see* Delone, A. B. MAKINO, F., *see* Fukada, Y. *et al.*
- MAKAROVA, E., *see* Delone, A.
- MAKAROVA, E. A., *see* Delone, A. B.
- MAKHUMDOV, M. M., G. M. NIKOLSKY, and YU. D. ŽUGŽDA / Motions in a Loop Prominence **66**, 89
- MAKISHIMA, K., *see* Tsuneta, S. *et al.*
- MAKITA, Mitsugu / A Study of the Green TiO Band in the Sunspot Spectrum **3**, 557
- MAKITA, M. / The Chromosphere in Continuum Emission Observed at the Total Solar Eclipse on 7 March 1970 **24**, 59
- MAKITA, M. / The Effective Optical Depth for the Formation of Absorption Lines **51**, 43
- MAKSIMOV, V. P., *see* Vainstein, S. I. *et al.*
- MALINOVSKY, M., *see* Heroux, L. *et al.*
- MALITSON, H. H., *see* Alexander, J. K.
- MALLIA, E. A. / The Performance of a Large Echelle Grating in a Solar Spectrometer **2**, 360
- MALLIA, E. A. / The Forbidden Lines of O I in the Photospheric Spectrum **3**, 505
- MALLIA, E. A. / The Performance of a Large Echelle Grating in a Solar Spectrometer (*Errata*) **3**, 363 (**2**, 360)
- MALLIA, E. A. / A Study of Weak Molecular and Atomic Lines in the Photospheric Spectrum **5**, 281
- MALLIA, E. A. / Penumbral Magnetic Field Strengths **11**, 31 (*Research Note*)
- MALLIA, E. A. / Intensity Profiles of a Sunspot near the Solar Limb **13**, 319
- MALLIA, E. A. / Zeeman Splitting of Molecular Lines in Sunspot Spectra **14**, 125
- MALLIA, E. A. and D. E. BLACKWELL / The Possible Existence of HOH Lines in the Sunspot Spectrum **12**, 101 (*Research Note*)
- MALLIA, E. A., D. E. BLACKWELL, and A. D. PETFORD / Lines in the Umbral Spectrum in the Region of 0.93μ **20**, 369 (*Research Note*)
- MALLIA, E. A., *see* Emerson, D.
- MALLIA, E. A., *see* Lambert, D. L.

- MALLIA, E. A., *see* Lambert, D. L.
- MALLIA, E. A., *see* Lambert, D. L. *et al.*
- MALLIA, E. A., *see* Lambert, D. L. *et al.*
- MALLIA, E. A., *see* Petford, A. D. *et al.*
- MALTBY, P. / The Effect of Magneto-Sonic Waves on a Zeeman Triplet with Application to Sunspots **4**, 96 (*Research Note*)
- MALTBY, P. / Effect of Progressive Alfvén Waves on the Profiles of Solar Spectral Lines **5**, 3
- MALTBY, P. / On the Continuum Intensity of the Umbra of Large Sunspots **13**, 312
- MALTBY, P. / The Effect of Scattered Light on Solar Intensity Observations as Derived from 9 May, 1970 Mercury Transit **18**, 3
- MALTBY, P. / Observations of the Intensity of the Penumbra of Sunspots **26**, 76
- MALTBY, P. / The Chromospheric Evershed Flow **43**, 91
- MALTBY, P. / $H\alpha$ Contrast Profiles of Filament Features **46**, 149
- MALTBY, P. / On the Difference in Darkness between Sunspots **55**, 335
- MALTBY, P. and G. ERIKSEN / The Evershed Effect as a Wave Phenomenon **2**, 249
- MALTBY, P. and N. MYKLAND / The Intensity of the Penumbra of Large Sunspots **8**, 23
- MALTBY, P. and L. STAVELAND / Sunspot Intensity Observations during the 9 May, 1970 Mercury Transit **18**, 443
- MALTBY, P. and O. ENGVOLD / Self-Reversal of the Lithium Resonance Doublet in Sunspots **14**, 129 (*Research Note*)
- MALTBY, P., *see* Albregtsen, F.
- MALTBY, P., *see* Albregtsen, F.
- MALTBY, P., *see* Albregtsen, F. *et al.*
- MALTBY, P., *see* Bønes, J.
- MALTBY, P., *see* Ekmann, G.
- MALTBY, P., *see* Kjeldseth Moe, O.
- MALTBY, P., *see* Kjeldseth Moe, Olav
- MALVILLE, J. McKim / The Starting Frequencies of Type III Bursts **2**, 484
- MALVILLE, J. McKim / Motions and Magnetic Fields in Quiescent Prominences **4**, 323
- MALVILLE, J. McKim / Magnetic Fields in Two Active Prominences **5**, 236
- MALVILLE, J. McKim and Edward J. SCHMAHL / MALVILLE, J. MCK. / The Fine Structure of Prominences. II: Vertical Flux Ropes and Filamentary Structure **50**, 79
- MALVILLE, J. MCK. / The Growth of Electric Current in the Eruptive Prominence of June 8, 1974 **50**, 395 (*Research Note*)
- MALVILLE, J. M. and G. D. TOOT / Impulsive Brightenings and Velocity Transients in Prominences. I: Large Events **80**, 279
- Photoelectric Measurements of the Green Coronal Line during the Eclipse of November 11, 1966 **4**, 224
- MALVILLE, J. McKim and E. TANDBERG-HANSEN / Magnetic Fields in Flares and Active Prominences. I: The Flares in Active Region McMath No. 8818, May 21 and 23, 1967 **6**, 279
- MALVILLE, J. MCKIM and M. SCHINDLER / Oscillations of a Loop Prominence Preceding a Linear Flare **70**, 115
- MALVILLE, J. McKim, Einar TANDBERG-HANSEN, and Dino ZEI / Profiles of the H and I Lines of Ca II in Disk Flares **7**, 253
- MALVILLE, J. MCK., *see* Engvold, O. *et al.*
- MALVILLE, J. McKim, *see* Nakagawa, Y.
- MALVILLE, J., MCKIM, *see* Tandberg-Hanssen, E.
- MALVILLE, J. MCKIM, *see* Tandberg-Hanssen, E.
- MAMADAZIMOV, M. / On the Fine Structure of the Evershed Effect **22**, 129
- MAMEDOV, S. G. and E. Sh. ORUDZHEV / On Three-Dimensional Information Pictures of Chromospheric Spicules **6**, 41 (*Research Note*)
- MANDELSHTAM, S. L., *see* Bromboszcz, G. *et al.*
- MANDELSTAM, S. L., *see* Aglizki, E. V. *et al.*
- MANDEL'STAM, S. L., *see* Beigman, I. L.
- MANDEL'STAM, S. L., *see* Grineva, Yu. I. *et al.*
- MANDELSTAM, S. L., *see* Korneev, V. V. *et al.*
- MANDELSTAM, S. L., *see* Korneev, V. V. *et al.*
- MANDELSTAM, S. L., *see* Korneev, V. V. *et al.*
- MANDELSHTAM, S. L., *see* Siarkowski, M. *et al.*
- MANDELSHTAM, S. L., *see* Siarkowski, M. *et al.*
- MANDEL'STAM, S. L., *see* Tindo, I. P. *et al.*
- MANDEL'STAM, S. L., *see* Tindo, I. P. *et al.*
- MANGO, S. A., *see* Kjeldseth Moe, O. *et al.*
- MANN, G. R., *see* Beckers, J. M. *et al.*
- MANN, G. R., *see* Cram, L. E. *et al.*
- MANSON, J. E. / Measurements of the Solar Spectrum between 30 and 128 Å **27**, 107
- MARAN, S. P., *see* Hobbs, R. W. *et al.*
- MARCHENKOV, K. I., *see* Vorontsov, S. V.
- MARGRAVE, JR., T. E. / Depth-Dependent Line Blanketing by Neutral and Ionized Metals in a Homogeneous Model Solar Photosphere **11**, 279
- MARGRAVE, JR., T. E. / The Solar Manganese Abundance **27**, 294
- MARGRAVE, JR., Thomas E. and Thomas L. SWIHART / Inhomogeneities in the Solar Photosphere **6**, 12
- MARGRAVE, JR., Th. E. and Th. L. SWIHART / More on Granulation Models **9**, 315 (*Research Note*)
- MARIANI, F., B. BAVASSANO, and U. VILLANTE / A Statistical Study of MHD Discontinuities in the Inner Solar System: Helios 1 and 2 **83**, 34
- MARIANI, F., L. DIODATO, and G. MORENO

- Search for Long Term Variations of the Interplanetary Magnetic Field **45**, 241
- MARIANI, F., U. VILLANTE, R. BRUNO, B. BAVASSANO, and N. F. NESS / An Extended Investigation of Helios 1 and 2 Observations: The Interplanetary Magnetic Field between 0.3 and 1 AU **63**, 411
- MARIANI, F., *see* Dobrowolny, M. *et al.*
- MARISKA, J. T. and L. OSTER / Solar Activity and the Variations of the Geomagnetic K_p -Index. I: Photospheric Activity **26**, 241
- MARISKA, J. T. and A. I. POLAND / The Relation between Hard X-Ray and Transition-Region Line Emission in Solar Flares **96**, 317
- MARISKA, J. T. and G. L. WITHBROE / Analysis of EUV Limb-Brightening Observations from ATM. I: Model for the Transition Layer and the Corona **44**, 55
- MARISKA, J. T. and G. L. WITHBROE / Temperature Gradients in the Inner Corona **60**, 67
- MARISKA, J. T., *see* Withbroe, G. L.
- MARKEEV, A. K., *see* Chernov, G. P. *et al.*
- MARKEEV, A. K., *see* Chernov, G. P. *et al.*
- MAROCCHI, D., *see* Fracastoro, M. G.
- MARQUES DOS SANTOS, P., *see* Kaufmann, P. *et al.*
- MARQUES DOS SANTOS, P., *see* Kaufmann, P. *et al.*
- MARRIOTT, R. T., D. E. ST. JOHN, R. M. THORNE, and S. V. VENKATESWARAN / XUV Image of the Sun from Eclipse Observations of the Ionospheric E-Region **21**, 483
- MARSH, K. A. / The Lifetime and Evolution of Fibrils **50**, 37
- MARSH, K. A. / The Calcium K-Line Network in Coronal Holes **52**, 343
- MARSH, K. A. / D_3 Spicules and the Lower Chromosphere **57**, 37
- MARSH, K. A. / Ephemeral Region Flares and the Diffusion of the Network **59**, 105
- MARSHALL, P. M. and G. HENDERSEN / An Interferometric Investigation of Emission Lines from the Solar Corona **33**, 153
- MARTENS, P. C. H., G. H. J. VAN DEN OORD, and P. HOYNG / Observations of Steady Anomalous Magnetic Heating in Thin Current Sheets **96**, 253
- MARTIN, D. C., *see* Martin, S. F. *et al.*
- MARTIN, F., *see* Aime, C. *et al.*
- MARTIN, I. M., *see* Rao, K. R. *et al.*
- MARTIN, S. F. / Study of the Post-Flare Loops on 29 July 1973. III: Dynamics of the $H\alpha$ Loops **64**, 93
- MARTIN, S. F. / The Evolution of Prominences and Their Relationship to Active Centers (a Review) **31**, 3
- MARTIN, S. F. and K. L. HARVEY / Ephemeral Active Regions during Solar Minimum **64**, 93
- MARTIN, S. F., H. E. RAMSEY, G. A. CARROLL, and D. C. MARTIN / A Multi-Slit Spectrograph and $H\alpha$ Doppler System **37**, 343
- MARTIN, S. F., *see* Harvey, K. L.
- MARTIN, S. F., *see* Harvey, K. L. *et al.*
- MARTIN, S. F., *see* Švestka, Z. *et al.*
- MARTIN, S. F., *see* Tandberg-Hanssen, E. *et al.*
- MARTRES, M.-J. / Quelques effets de l'interaction des centres actifs solaires **11**, 258
- MARTRES, M.-J., and I. SORU-ESCAUT / Chromospheric Absorbing Features Promising the Appearance and the Development of an Active Centre **21**, 137
- MARTRES, M. J. and I. SORU-ESCAUT / The Relation of Flares to 'Newly Emerging Flux' and 'Evolving Magnetic Structures' **53**, 225
- MARTRES, M., M. PICK, and G. K. PARKS / The Origin of Interplanetary Sectors from Radio Observations **15**, 48
- MARTRES, M.-J., P. MEIN, B. SCHMIEDER, and I. SORU-ESCAUT / Structure and Evolution of Velocities in Quiescent Filaments **69**, 301
- MARTRES, M.-J., R. MICHARD, I. SORU-ISCOVICI et T. T. TSAP / Étude de la localisation des éruptions dans la structure magnétique évolutive des régions actives solaires **5**, 187
- MARTRES, M.-J., I. SORU-ESCAUT, and J. RAYROLE / Relationship between Some Photospheric Motions and the Evolution of Active Centers **32**, 365
- MARTRES, M.-J., J. RAYROLE, and I. SORU-ESCAUT / Spatial Correlation of $H\alpha$ Filaments and Photospheric Velocity **46**, 137
- MARTRES, M. J., *see* Axisa, F. *et al.*
- MARTRES, M. J., *see* Axisa, F. *et al.*
- MARTRES, M.-J., *see* Dollfus, A.
- MARTRES, M.-J., *see* Kane, S. R.
- MARTRES, M. J., *see* Mouradian, Z. *et al.*
- MARTRES, M.-J., *see* Pick, M. *et al.*
- MARTRES, M. J., *see* Schmahl, E. J. *et al.*
- MARTRES, M. J., *see* Schmieder, B. *et al.*
- MARTRES, M. J., *see* Vial, J. C. *et al.*
- MASHNICH, G. P., *see* Bashkirtsev, V. S.
- MASHNICH, G. P., *see* Bashkirtsev, V. S. *et al.*
- MASLENNIKOVA, L. B., *see* Kurochka, L. N.
- MASLEY, A. J., *see* Goedeke, A. D.
- MASON, H. E., A. K. BHATIA, S. O. KASTNER, W. M. NEUPERT, and M. SWARTZ / Diagnostic Application of Highly Ionized Iron Lines in the XUV Spectrum of a Solar Flare **92**, 199
- MASON, H. E., *see* MacNeice, P. *et al.*
- MASON, S. F. and R. J. BESSEY / The Formation

- of Prominences by Thermal Instability: a Numerical Study **83**, 121
- MASSE, P., *see* Barouch, E. *et al.*
- MATSUMARU, K. / Sunspot Observations by Means of a Vidicon Camera (I) **28**, 351
- MATSUOKA, M., *see* Takakura, T. *et al.*
- MATSUURA, O. T. / A Magnetohydrodynamic Approach for Interpreting Solar Polarization Bursts at 7 GHz **9**, 173
- MATSUURA, O. T. and P. MARQUES DOS SANTOS / Three Years Statistics of Simple 3 Solar Bursts **17**, 402
- MATSUURA, O. T. and M. F. F. NAVE / Some Center-Limb Statistical Trends of Impulsive Solar Bursts at 7 GHz **14**, 384
- MATSUURA, O. T. and M. F. F. NAVE / The Impulsiveness of Microwave Bursts and Its Association with Sunspot Types **16**, 417
- MATSUURA, O. T., *see* Kaufmann, P. *et al.*
- MATTIG, W. / On the Center-to-Limb Variation of Sunspot Brightness **6**, 413
- MATTIG, W. / The Geometrical Height-Scale and the Pressure Equilibrium in the Sunspot Umbra **8**, 291
- MATTIG, W. / Observations of Stray-Light and Sunspot Intensities during the Mercury Transit of 1970 May 9 **18**, 434
- MATTIG, W. / Sub- and Superhydrostatic Equilibrium in Sunspots **36**, 275 (*Research Note*)
- MATTIG, W. / On the Instrumental and Atmospheric Stray-Light for Solar Observations **87**, 187
- MATTIG, W. and A. NESIS / Studies of Granular Velocities. IV: Statistical Analysis of Granular Doppler-Shifts **36**, 3
- MATTIG, W. and A. NESIS / Studies of Granular Velocities. VI: Changes in the Granular Velocity Field around Sunspots **38**, 337
- MATTIG, W. and A. NESIS / Studies of Granular Velocities. VII: Granular Velocities around Sunspots **50**, 255 (*Research Note*)
- MATTIG, W. and H. SCHLEBBE / Studies of Granular Velocities. V: The Height Dependence of the Granular Doppler Shifts **34**, 299 (*Research Note*)
- MATTIG, W., J. P. MEHLTRETTER and A. NESIS / Studies of Granular Velocities. I: Granular Doppler Shifts and Convective Motion **10**, 254
- MATTIG, W., *see* Durrant, C. J. *et al.*
- MATTIG, W., *see* Kneer, F.
- MATTIG, W., *see* Kneer, F. J. *et al.*
- MATTIG, W., *see* Kneer, F. *et al.*
- MATTOO, S. K. and R. V. BHONSLE / Comparison of Polarization Characteristics of Decametric Type III Solar Radio Bursts at Two Closely Spaced Frequencies **38**, 217
- MATTOO, S. K. and R. V. BHONSLE / The Representation of Partially Elliptically Polarized Type III Solar Burst Radiation **38**, 223 (*Research Note*)
- MÄTZLER, C. / Spatial Dispersion of Faraday Rotation and Its Connexion with Mode Coupling **32**, 241
- MÄTZLER, C. / Continuous Injection Model for Hard X-Ray Correlated Microwave Bursts **49**, 117
- MÄTZLER, CHRISTIAN / Continuous Injection Model for Hard X-Ray Correlated Microwave Bursts (*Errata*) **53**, 199 (**49**, 117)
- MÄTZLER, C., *see* Magun, A.
- MAUTE, K. and G. ELWERT / Quantitative Analysis of Skylab X-Ray Pictures of the Sun by Means of Iterative Deconvolution **70**, 273
- MAUTER, H. A., *see* Beckers, J. M. *et al.*
- MAUTER, H. A., *see* Cram, L. E. *et al.*
- MAVROMICHALAKI, H., *see* Xanthakis, J. *et al.*
- MAXWELL, A. / Harvard Radio Station **16**, 224 (*Report from Solar Institute*)
- MAXWELL, A. and M. DRYER / Solar Radio Bursts of Spectral Type II, Coronal Shocks, and Optical Coronal Transients **73**, 313
- MAXWELL, A. and R. RINEHART / Shock Waves Generated by the Intense Solar Flare of 1972 August 7, 15:00 UT **37**, 437
- MAXWELL, A., M. DRYER, and P. MCINTOSH / A Piston-Driven Shock in the Solar Corona **97**, 401
- MAXWELL, A., *see* Wu, S. T. *et al.*
- MAYER, U., *see* Bräuninger, H. *et al.*
- MAYFIELD, E. B. and G. A. CHAPMAN / Magnetic Flux Changes Associated with the Solar Flares of August 1972 **70**, 351
- MAYFIELD, E. B. and J. K. LAWRENCE / The Correlation of Solar Flare Production with Magnetic Energy in Active Regions **96**, 293
- MAYFIELD, E. B. and K. P. WHITE, III / Pre-Flare Association of Magnetic Fields and Millimeter-Wave Radio Emission **47**, 277
- MAYFIELD, E. B., G. A. CHAPMAN, and R. M. STRAKA / Eclipse of Radio Emission on 7 March, 1970 at 10 cm Wavelength from the Active Region Associated with McMath Plage 10618 **21**, 460
- MAYFIELD, E. B., J. HIGMAN, and C. SAMSON / Variations in Solar Emission at 3.3 mm Wavelength and Their Relation to Flares **13**, 372
- MAYFIELD, E. B., *see* Burl, J. B. *et al.*
- MAYFIELD, E. B., *see* Shimabukuro, F. I. *et al.*
- MAYR, H. G., *see* Schatten, K. H. *et al.*

- MAZZUCCONI, F. and A. RIGHINI / Isodensitometric Analysis of Flare on 1966, March 20 **17**, 174
- MAZZUCCONI, F., *see* Godoli, G.
- MAZZUCCONI, F., *see* Godoli, G.
- MCALLISTER, H. C. / Ultraviolet Solar Spectrum Recorded by Echelle Spectrograph (1970 to 1800 Å) **21**, 27
- MCALLISTER, H. C. / Center-to-Limb Profiles of the Aluminum Autoionization Lines in the Solar Spectrum **35**, 3
- MCALLISTER, H. C. and P. H. SMITH / Ultraviolet Solar Spectrum (1889–1969 ångströms) **41**, 3
- MCALLISTER, H. C., *see* Allen, M. S.
- MCALLISTER, H. C., *see* Finn, G. D.
- MCCABE, M. / Sudden Disappearance of a Large Quiescent Prominence on the Solar Disk, April 28, 1967 **12**, 115
- MCCABE, M. K. / Mass Motions in a Flare Spray **19**, 451
- MCCABE, M. K. / Spatial Relationship between $\lambda 5303$ and H α Components of a Loop Prominence System **30**, 439
- MCCABE, M. K. / H α Manifestation of an Energetic Limb Flare, June 21, 1980 **98**, 127
- MCCABE, M. K. and D. L. MICKEY / The He I 10830 Å Chromosphere and Filament-Associated Structures **73**, 59
- MCCABE, M. K. and R. R. FISHER / H α Coronagraph Observations of a Flare Spray, March 1, 1969 **14**, 212
- MCCABE, M. K., *see* Gergely, T. E. *et al.*
- MCCABE, M. K., *see* Stewart, R. T. *et al.*
- MCCAIG, M. G., *see* Emslie, A. G. *et al.*
- MCCLYMONT, A. N., *see* Brown, J. C.
- MCCLYMONT, A. N., *see* Craig, I. J. D.
- MCCLYMONT, A. N., *see* Craig, I. J. D.
- MCCONNELL, D. / Evidence for arc sec Radio Burst Sources in the Upper Corona **84**, 361
- MCCONNELL, D. and G. R. A. ELLIS / Fine Structure in Fast Drift Storm Bursts **69**, 161
- MCCONNELL, D., *see* Schmahl, E. J. *et al.*
- MCCRACKEN, K. G., U. R. RAO, R. P. BUKATA, and E. P. KEATH / The Decay Phase of Solar Flare Events **18**, 100
- MCCRACKEN, K. G., *see* Allum, F. R. *et al.*
- MCCRACKEN, K. G., *see* Allum, F. R. *et al.*
- MCCRACKEN, K. G., *see* Bartley, W. C. *et al.*
- MCCRACKEN, K. G., *see* Bukata, R. P.
- MCCRACKEN, K. G., *see* Bukata, R. P. *et al.*
- MCCRACKEN, K. G., *see* Keath, E. P. *et al.*
- MCCRACKEN, K. G., *see* Rao, U. R. *et al.*
- MCCULLOUGH, T. P., *see* Kundu, M. R.
- MCCULLOUGH, T. P., *see* Kundu, M. R.
- MCCULLOUGH, T. P., *see* Kundu, M. R. *et al.*
- MCCUTCHEON, W. H., *see* Joensen, P. *et al.*
- MCDONALD, F. B., *see* Cline, T. L.
- MCDONALD, F. B., *see* Van Hollebeke, M. A. I. *et al.*
- MCDUGAL, D. S. / Photometric Intensity and Polarization Measurements of the Solar Corona **21**, 430
- MCDOWELL, M. W., *see* Bates, B.
- MCGUIRE, J. P., E. TANDBERG-HANSEN, K. R. KRALL, S. T. WU, J. B. SMITH, and D. M. SPEICH / A Long-Lived Coronal Arch System Observed in X-Rays **52**, 91
- MCGUIRE, J. P., *see* Krall, K. R. *et al.*
- MCGUIRE, J. P., *see* Sheeley, N. R. *et al.*
- MCINTOSH, P. S. and P. R. WILSON / A New Model for Flux Emergence and the Evolution of Sunspots and the Large-Scale Fields **97**, 59
- MCINTOSH, P. S. and R. F. DONNELLY / Properties of White Light Flares. I: Association with H α Flares and Sudden Frequency Deviations **23**, 444
- MCINTOSH, P. S., A. S. KRIEGER, J. T. NOLTE, and G. VAIANA / Association of X-Ray Arches with Chromospheric Neutral Lines **49**, 57
- MCINTOSH, P. S., *see* Duvall, T. L., Jr., *et al.*
- MCINTOSH, P. S., *see* Nolte, J. T. *et al.*
- MCINTOSH, P. S., *see* Webb, D. F. *et al.*
- MCINTOSH, P. S., *see* Webb, D. F. *et al.*
- MCINTOSH, P. S., *see* Wilson, P. R.
- MCINTOSH, P. S., *see* Wu, S. T. *et al.*
- MCINTOSH, P., *see* Maxwell, A. *et al.*
- MCKEITH, C. D., *see* Greve, A.
- MCKEITH, C. D., *see* Greve, A.
- MCKEITH, C. D., *see* Greve, A. *et al.*
- MCKEITH, N. E., *see* Greve, A. *et al.*
- MCKENZIE, D. L. / Hard X-Ray Bursts from Flares behind the Solar Limb **40**, 183
- MCKENZIE, D. L., D. W. DATLOWE, and L. E. PETERSON / Spectral Development of a Solar X-Ray Burst Observed on OSO-7 **28**, 175
- MCKENZIE, D. L., *see* Schmahl, E. J. *et al.*
- MCKENZIE, D. L., *see* Underwood, J. H.
- MCKENZIE, D. L., *see* Underwood, J. H.
- MCKENZIE, D. L., *see* Vorpahl, J. A. *et al.*
- MCKENZIE, D., *see* Zirin, H.
- MCKENZIE, J. F., *see* El Mekki, O. *et al.*
- MCLEAN, D. J. and K. V. SHERIDAN / Radio Evidence of Twisted Bi-Polar Magnetic Fields in the Solar Corona **26**, 176
- MCLEAN, D. J. and K. V. SHERIDAN / A Damped Train of Regular Metre-Wave Pulses from the Sun **32**, 485
- MCLEAN, D. J., *see* Dulk, G. A.
- MCLEAN, D. J., *see* Grogard, R. J.-M.
- MCLELLAN, ALDEN, IV and F. WINTERBERG / Magneto-Gravity Waves and the Heating of the Solar Corona **4**, 401
- MCLEOD, C. P., *see* Claverie, A. *et al.*
- MCLEOD, C. P., *see* Claverie, A. *et al.*

- McMULLIN, J. N. and H. L. HELFER / The Effects of Scattering on Quiet Sun Emission at Frequencies Less Than 200 MHz **53**, 471
- McNAMARA, D., *see* Nakagawa, Y. *et al.*
- McNAMARA, L. F. and C. S. WRIGHT / The Relative Importance of Solar Type IV Radio Bursts and Flare-Site Magnetic Field Orientations as Predictors of Geomagnetic Activity **84**, 289
- McNAMARA, L. F., *see* Lewis, E. L. *et al.*
- McNAMARA, L. F., *see* Wright, C. S.
- McNARRY, L. R., *see* Harvey, G. A.
- McWHIRTER, R. W. P., *see* MacNeice, P. *et al.*
- MEADOWS, A. J., *see* Vesecky, J. F.
- MEEKINS, J. F. and G. A. DOSCHEK / Recombination Edges Observed in Solar Soft X-Ray Flare Spectra **13**, 213
- MEEKINS, J. F., G. A. DOSCHEK, H. FRIEDMAN, T. A. CHUBB, and R. W. KREPLIN / Solar Soft X-Ray Flare Spectra from OSO-4 **13**, 198
- MEEKINS, J. F., *see* Doschek, G. A.
- MEEKINS, J. F., *see* Doschek, G. A.
- MEEKINS, J. F., *see* Doschek, G. A. *et al.*
- MEEKINS, J. F., *see* Kahler, S. W. *et al.*
- MEERSON, B. I. and I. V. ROGACHEVSKII / On the Storage of High-Energy Protons in the Solar Corona: the Cyclotron Instability **87**, 337
- MEERSON, B. I., P. V. SADOROV, and A. V. STEPANOV / Pulsations of Type IV Solar Radio Emission: the Bounce-Resonance Effects **58**, 165
- MEHLTRETTER, J. P. / On π -Components in Zeeman-Split Lines of the Umbra Spectrum **9**, 387 (*Research Note*)
- MEHLTRETTER, J. P. / Studies of Granular Velocities. II: Statistical Analysis of Two High-Resolution Spectrograms **16**, 253
- MEHLTRETTER, J. P. / Studies of Granular Velocities. II: Statistical Analysis of Two High-Resolution Spectrograms (*Errata*) **18**, 510 (**16**, 253)
- MEHLTRETTER, J. P. / On the rms Intensity Fluctuation of Solar Granulation **19**, 32
- MEHLTRETTER, J. P. / Studies of Granular Velocities. III: The Influence of Finite Spectral and Spatial Resolution upon the Measurement of Granular Doppler Shifts **30**, 19
- MEHLTRETTER, J. P. / Observations of Photospheric Faculae at the Center of the Solar Disk **38**, 43
- MEHLTRETTER, J. P. / On the Proper Motion of Small Pores in Sunspot Groups **63**, 61
- MEHLTRETTER, J. P., *see* Canfield, R. C.
- MEHLTRETTER, J. P., *see* Mattig, W.
- MEIN, N. / Wave Propagation in the Quiet Solar Chromosphere **52**, 283
- MEIN, N. / Relation between the Mode of Oscillation and the Velocity Amplitude of Chromospheric Waves **59**, 3
- MEIN, N. / Relation between the Mode of Oscillation and the Velocity Amplitude of Chromospheric Waves (*Errata*) **59**, 407 (**59**, 3)
- MEIN, N. and P. MEIN / Velocity Waves in the Quiet Solar Chromosphere **49**, 231
- MEIN, N. and Y. AVIGNON / Ejection of Chromospheric Material Associated with Injection of Electrons in the Solar Corona **95**, 331
- MEIN, N., *see* Mein, P.
- MEIN, N., *see* Mein, P.
- MEIN, N., *see* Provost, J.
- MEIN, N., *see* Simon, G. *et al.*
- MEIN, P. / Inhomogeneities in the Solar Atmosphere from the Ca II Infra-Red Lines **20**, 3
- MEIN, P. / Multi-Channel Subtractive Spectrograph and Filament Observations **54**, 45
- MEIN, P. and M. BLONDEL / A Subtractive Double Pass Spectrograph for Solar Observations **27**, 489
- MEIN, P. and N. MEIN / The Hydrogen Balmer Lines and the Structure of the Quiet Solar Chromosphere. I: Observations at the Limb **40**, 317
- MEIN, P. and N. MEIN / Dynamics of Post-Flare Ejections and Magnetic Loop Geometry **80**, 161
- MEIN, P., *see* Martres, M.-J. *et al.*
- MEIN, P., *see* Mein, N.
- MEIN, P., *see* Schmieder, B. *et al.*
- MEIN, P., *see* Simon, G. *et al.*
- MEISEL, David D. / Identification of a Solar X-Ray Source Using D Layer Ionization Behavior during an Eclipse **5**, 575
- MEISEL, David D. / Further Investigations of Solar X-Ray Sources Using D-Layer Ionization Behavior during Eclipses **8**, 477
- MEISEL, David D. / Identification of Two Solar X-Ray Sources at the 22 September 1968 Total Eclipse **9**, 487
- MEISEL, D. D. / Reply to Aikin and Underwood **11**, 338 (*Research Note*)
- MEKHANIKOV, V. V., *see* Karpinsky, V. N.
- MELOZZI, M., M. R. KUNDU, and R. K. SHEVGAONKAR / Simultaneous Microwave Observations of Solar Flares at 6 and 20 cm Wavelengths Using the VLA **97**, 345
- MELOZZI, M., *see* Shibasaki, K. *et al.*
- MELROSE, D. B. / Comments on 'Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts' by Dean F. Smith **34**, 421
- MELROSE, D. B. / A Relationship between the Brightness Temperatures for Type III Bursts **35**, 441
- MELROSE, D. B. / Resonant Scattering of Particles and Second Phase Acceleration in the Solar

- Corona **37**, 353
- MELROSE, D. B. / On the Propagation of the Electron Streams Generating Type III Bursts **38**, 205
- MELROSE, D. B. / Plasma Emission due to Isotropic Fast Electrons, and Type I, II, and V Solar Radio Bursts **43**, 211
- MELROSE, D. B. / Small-Scale Inhomogeneities in the Solar Corona: Evidence from Meter- λ Radio Bursts **43**, 79
- MELROSE, D. B. / Effects of an Ambient Magnetic Field on the Properties of Langmuir Waves **46**, 511 (*extended summary*)
- MELROSE, D. B. / A Plasma-Emission Mechanism for Type I Solar Radio Emission **67**, 357
- MELROSE, D. B. / Fundamental Emission for Type III Bursts in the Interplanetary Medium: The Role of Ion-Sound Turbulence **79**, 173
- MELROSE, D. B. / Frequency Splitting in Stria Bursts: Possible Roles of Low-Frequency Waves **87**, 359
- MELROSE, D. B. / Prompt Acceleration of ~ 30 MeV per Nucleon Ions in Solar Flares **89**, 149
- MELROSE, D. B., *see* Brown, J. C.
- MELROSE, D. B., *see* Hewitt, R. G.
- MELVILLE, J. P., A. W. HOOD, and E. R. PRIEST / Magnetic Equilibrium in Coronal Arcades **87**, 301
- MELVILLE, J. P., A. W. HOOD, and E. R. PRIEST / Magnetohydrostatic Structures in the Solar Atmosphere **92**, 15
- MENDELL, R. B., *see* Korff, S. A.
- MENZEL, D. H., *see* Arnoquist, W. N.
- MERCIER, C. / Association of Solar Prominences and Coronal Magnetic Sheets from Their Observed Correlation with Type III Radiobursts **33**, 177
- MERCIER, C. / Evidence of Large Scale Diverging Paths in the Solar Corona for Type III Bursts Exciters **45**, 169
- MERCIER, C. / Evidence of Large Scale Diverging Paths in the Solar Corona for Type III Bursts Exciters (*abstract only*) **46**, 499
- MERCIER, C. / Reply to the Paper 'Solar Radio Type III Bursts and Coronal Density Structures' by Y. Leblanc and J. De la Noë **57**, 423
- MERCIER, C. and J. HEYVAERTS / Energy Balance in Current Sheets: From Petschek to Gravity Driven Reconnection? **68**, 151
- MERCIER, C. and H. ROSENBERG / Type III Solar Radio Bursts Observed at 169 MHz: Height and Relative Positions in Pairs **39**, 193
- MERCIER, C., Ø. ELGARØY, A. TLAMICHA, and P. ZLOBEC / Solar Noise Storms Coordinated Observations: May 16–24, 1981 (Summary of Results of a Cooperative Study) **92**, 375
- MERCIER, C., *see* Pick, M. *et al.*
- MERCIER, J. P., *see* Cherki, G. *et al.*
- MERCIER, J. P., *see* Dilworth, C. *et al.*
- MERGENTALER, Jan / Wrocław University Astronomical Observatory **10**, 229 (*Report from Solar Institute*)
- MERIGHI, R., *see* Baiada, E.
- MERKULENKO, V. E., V. I. POLYAKOV, L. E. PALAMARCHUK, and N. V. LARIONOV / Spectral-Spatial Analysis of Wave Motions in the Region of the Temperature Minimum of the Sun's Atmosphere **82**, 157
- MERZLIAKOV, E. G. and M. S. RUDERMAN / Long Nonlinear Waves in a Compressible Magnetically Structured Atmosphere. I: Slow Sausage Waves in a Magnetic Slab **95**, 51
- MEWE, R. / Calculated Solar X-Radiation from 1 to 60 Å **22**, 459
- MEWE, R. / Note on the Helium-Like Ion Line Emission in Solar Plasmas **22**, 114
- MEWE, R. / Calculated Solar X-Radiation from 1 to 60 Å **23**, 508 (**22**, 459)
- MEWE, R. / Calculated Solar X-Radiation. II: Spectrum between 61 and 220 Å **44**, 383
- MEWE, R., *see* Strong, K. T. *et al.*
- MEWE, R., *see* Sylwester, J. *et al.*
- MEYER, F. / Considerations Concerning Flare Interpretations (*invited paper, extended abstract*) **47**, 77
- MEYEROTT, A. J., *see* Acton, L. W. *et al.*
- MICHAEL, G. A., *see* Castelli, J. P.
- MICHALITSANOS, A. G. / The Five Minute Period Oscillation in Magnetically Active Regions **30**, 47
- MICHALITSANOS, A. G. and P. KUPFERMAN / Spectrograph, Filtergraph and Magnetograph Observations of the Two-Ribbon Flare of 29 July, 1973 **36**, 403
- MICHALITSANOS, A. G., *see* Durrant, C. J.
- MICHALITSANOS, A. G., *see* Roy, J. R.
- MICHALITSANOS, A. G., *see* Woodgate, B. E. *et al.*
- MICHARD, R. / Solar Physics at the 'Observatoire de Paris-Meudon' **1**, 498 (*Report from Solar Institute*)
- MICHARD, R., *see* Bonnelle, C. *et al.*
- MICHARD, R., *see* Martres, M.-J.
- MICHELS, D. J., *see* Bird, M. K. *et al.*
- MICHELS, D. J., *see* Cliver, E. W. *et al.*
- MICHELS, D. J., *see* Fisher, R. R. *et al.*
- MICHELS, D., *see* Gergely, T. E. *et al.*
- MICHELS, D. J., *see* Kahler, S. *et al.*
- MICHELS, D. J., *see* Koomen, M. J. *et al.*
- MICHELS, D. J., *see* Poland, A. I. *et al.*
- MICHELS, D. J., *see* Wagner, W. J. *et al.*

- MICHEL, H. H., *see* Lewis, E. L. *et al.*
- MICKEY, D. L. / The Haleakala Stokes Polarimeter **97**, 223
- MICKEY, D. L., *see* Illing, R. M. E. *et al.*
- MICKEY, D. L., *see* McCabe, M. K.
- MIHALAS, D., *see* A. Hay, R. G. *et al.*
- MIHALAS, D., *see* Lites, B. W.
- MIHALAS, D., *see* Milkey, R. W.
- MIHALOV, J. D. and J. H. WOLFE / Pioneer-10 Observation of the Solar Wind Proton Temperature Heliocentric Gradient **60**, 399
- MIKHERNA, N. V., *see* Ivanov, K. G. *et al.*
- MIKHAILUTSA, V. P. and M. N. GNEVYSHEV / The Solar Causes of Geomagnetic Disturbances **98**, 387
- MIKHAILUTSA, V. P., *see* Gnevyshev, M. N.
- MILKEY, R. W. / Chromospheric Heating above Supergranular Boundaries **14**, 62
- MILKEY, R. W. / On the Frequency Dependence of Acoustic Emission by Isotropic Turbulence **14**, 77 (*Research Note*)
- MILKEY, R. W. / The Origin of Flare Produced Hard X-Rays **16**, 465 (*Research Note*)
- MILKEY, R. W. and D. MIHALAS / Calculation of the Solar Chromospheric $L\alpha$ Profile Allowing for Partial Redistribution Effects **32**, 361 (*Research Note*)
- MILKEY, R. W., N. K. BLOCKER, W. H. CHAMBERS, P. E. FEHLAU, J. C. FULLER, and W. E. KUNZ / The Time Behaviour of Temperature and Emission Measure in X-Ray Flares **20**, 400
- MILKEY, R. W., *see* Altrock, R. C. *et al.*
- MILKEY, R. W., *see* Beckers, J. M.
- MILKEY, R. W., *see* Heasley, J. N. *et al.*
- MILKEY, R., *see* Livingston, W.
- MILLARD, John P., *see* Neel, Carr B.
- MILLER, P., P. FOUKAL, and S. KEIL / On the Interpretation of Fraunhofer Line Doppler Shifts at Supergranule Boundaries **92**, 33
- MILLER, P., *see* Foukal, P. *et al.*
- MILLER, R. A. / Unusual Rotation of a Sunspot 30 September to 8 October 1969 **16**, 373
- MILLER, R. A. / Bright Photospheric Areas Surrounding Sunspot Groups at 5700 Å **36**, 91
- MILNE, A. M. and E. R. PRIEST / Internal Structure of Reconnecting Current Sheets and the Emerging Flux Model for Solar Flares **73**, 157
- MILNE, A. M., *see* Priest, E. R.
- MITAL, H. P. and U. NARAIN / Autoionization Rate Coefficients for Some Coronal Ions **54**, 387
- MITAL, H. P. and U. NARAIN / On the Temperature Distribution in the Solar Corona **56**, 121 (*Research Note*)
- MITAL, H. P. and U. NARAIN / Autoionization Rate Coefficients for Some Ions of Astrophysical Interest **57**, 341 (*Research Note*)
- MITAL, H. P., *see* Narain, U. *et al.*
- MITCHELL, W. E., JR. / Limb Darkening in the Solar Ultraviolet **69**, 391
- MITCHELL, W. E., JR. / Large-Scale Brightness Inhomogeneities in the Solar Atmosphere **80**, 5
- MITCHELL, W. E., JR., *see* Jebsen, D. E.
- MITRA, S. N. / SCL - a New Nomenclature to Denote the Effect of a Solar Flare on Long-wave Field Intensity **15**, 249 (*Research Note*)
- MITYAKOV, N. A., *see* Zaitsev, V. V. *et al.*
- MIYAJI, T., *see* Akabane, K. *et al.*
- MIYAMATO, S., *see* Takakura, T. *et al.*
- MIZUGAKI, K., *see* Hirayama, T. *et al.*
- MIZUNO, S., *see* Kawaguchi, I. *et al.*
- MOE, KENNETH / On the Integration of Intensity Measurements of the Solar Center and Limb near 300 Nanometers **88**, 9 (*Research Note*)
- MOGILEVSKY, E. I. / The Solar Department at IZMIRAN **10**, 231 (*Report from Solar Institute*)
- MOGILEVSKY, E., B. IOSHPA, and V. OBRIDKO / On the Polarization of the Solar Coronal Emission Lines **33**, 169
- MOGILEVSKY, E. I., *see* Akinyan, S. T. *et al.*
- MOHLER, Orren C. and Helen W. DODSON / McMath-Hulbert Observatory of the University of Michigan **5**, 417 (*Report from Solar Institute*)
- MOHLMANN, D. T. F. / Electric Fields in the Solar Atmosphere **54**, 151 (*Research Note*)
- MOISEEV, I. G., *see* Efanov, V. A.
- MOISEEV, I. G., *see* Efarnov, V. A. *et al.*
- MOISEEV, L. G., *see* Kotov, V. A. *et al.*
- MOHLER, O. C., *see* Švestka, Z. *et al.*
- MOK, Y. / Propagation of Energetic Electron Streams in Solar Flares **95**, 181
- MÖLLENSTEDT, G., *see* Bräuninger, H. *et al.*
- MØLLER-PEDERSEN, B., *see* De la Noë, J. *et al.*
- MOLLWO, L. / Interpretation of Type I and IV mB-Bursts and Noise Storms by Mode Coupling in the Warm Plasma **12**, 125
- MOLLWO, L. / Wave Propagation in the Warm Plasma and the Spectrum of the Solar Radio Bursts **19**, 128
- MOLLWO, L. / Interpretation of Distinct Type IVmA- and IV-Bursts on the Basis of Micro-Instabilities and of Resonant Nonlinear Interaction of Waves **30**, 497
- MOLLWO, L. / Interpretation of Patterns of Drifting Zebra Stripes **83**, 305
- MOLLWO, L. and K. SAUER / A Model Explaining Type IV Continuum Bursts by Coherent Nonlinear Interaction of Bernstein Waves **51**, 435
- MOLNAR, H., *see* Grossi Gallegos, H. *et al.*
- MOLODENSKY, M. M. / On an Anomalous Polari-

- zation of the Corona **28**, 465
- MOLODENSKY, M. M. / Equilibrium and Stability of the Force-Free Magnetic Field **39**, 393
- MOLODENSKY, M. M. / Equilibrium and Stability of the Force-Free Magnetic Field. II: Stability **43**, 311
- MOLODENSKY, M. M. / Equilibrium and Stability of the Force-Free Magnetic Field. III **49**, 279
- MOLODENSKY, M. M., *see* Kishonkov, A. K.
- MONGILLO, M., *see* Landman, D. A.
- MONSIGNORI FOSSI, B. C., G. POLETTI and G. L. TAGLIAFERRI / An Outstanding Lyman-Alpha Event **10**, 196 (*Research Note*)
- MONSIGNORI FOSSI, B. C., *see* Godoli, G.
- MONSIGNORI FOSSI, B. C., *see* Landini, M.
- MONSIGNORI FOSSI, B. C., *see* Landini, M.
- MONSIGNORI FOSSI, B. C., *see* Landini, M. *et al.*
- MONSIGNORI FOSSI, B. C., *see* Landini, M. *et al.*
- MONSIGNORI FOSSI, B. C., *see* Landini, M. *et al.*
- MONTGOMERY, Earl F. / Clarification in the Identification of Certain Lines in the Infrared Solar Spectrum **10**, 60 (*Research Note*)
- MONTGOMERY, M. D., *see* Bame, S. J. *et al.*
- MOORE, E. P., *see* Colgate, S. A.
- MOORE, R. L. / On the Generation of Umbral Flashes and Running Penumbra Waves **30**, 403
- MOORE, R. L. / The Response of an Isothermal Atmosphere to Pressure Fluctuations at Its Base and the Five-Minute Oscillations in the Solar Photosphere **36**, 321
- MOORE, R. L. and D. W. DATLOWE / Heating and Cooling of the Thermal X-Ray Plasma in Solar Flares **43**, 189
- MOORE, R. L. and P. C. W. FUNG / Structure of the Chromosphere-Corona Transition Region **23**, 78
- MOORE, R. L. and F. TANG / Umbral Oscillations and Penumbra Waves in H α **41**, 81
- MOORE, R. L., *see* deLoach, A. C. *et al.*
- MOORE, R. L., *see* Dowdy, Jr., J. F. *et al.*
- MOORE, R. L., *see* Kahler, S. W. *et al.*
- MOORE, R. L., *see* Sturrock, P. A. *et al.*
- MOORE, R. L., *see* Švestka, Z. *et al.*
- MOORE, R. L., *see* Tandberg-Hanssen, E. *et al.*
- MOORE, R. L., *see* Tang, F.
- MOORE, R. L., *see* Zirin, H.
- MOORE, R. L. (ed.), *see* Zirin, H. *et al.* (eds.)
- MOORE, R., *see* Topka, K. *et al.*
- MORENO, G. and F. PALMIOTTO / Variations of α -Particle Abundance in the Solar Wind **30**, 207 (*Research Note*)
- MORENO, G. and F. PALMIOTTO / On the Bulk Velocity of the Solar Wind α -Particles **34**, 243 (*Research Note*)
- MORENO, G., *see* Bavassano, B. *et al.*
- MORENO, G., *see* Cattaneo, M. B. *et al.*
- MORENO, G., *see* Diodato, L. *et al.*
- MORENO, G., *see* Formisano, V. *et al.*
- MORENO, G., *see* Mariani, F. *et al.*
- MORETON, G. E. and A. B. SEVERNY / Magnetic Fields and Flares in the Region CMP 20 September 1963, **3**, 282
- MORFILL, G., *see* Scholer, M. *et al.*
- MORGAN, D. H. / The Enhancement of Scattered L α Radiation in the Geocorona during Solar Flares of August 1972 **52**, 463
- MORGAN, F. J., *see* Yang, C. Y. *et al.*
- MORGANTE, O., *see* Godoli, G. *et al.*
- MORI, T. T., *see* Shimabukuro, F. I. *et al.*
- MORIYAMA, F., *see* Akabane, K. *et al.*
- MORIYAMA, F., *see* Hirayama, T.
- MOROZHENKO, N. N. / Determination of Electron Temperature of Quiescent Prominences by Hydrogen Lines **34**, 303
- MOROZHENKO, N. N. / On Intensity Ratios of Helium and Hydrogen Lines in Quiescent Prominences **34**, 313
- MOROZHENKO, N. N. / On Peculiarities of the H and K Ca II Lines of Quiescent Prominences **35**, 395
- MOROZHENKO, N. N. / On the Intensity of Helium and Hydrogen Lines in Quiescent Prominences with Filamentary Structure **39**, 349
- MOROZHENKO, N. N. / Emission of Helium in Prominences and the Chromosphere **42**, 71
- MOROZHENKO, N. N. / Radiation Transfer in Prominences with Filamentary Structure **58**, 47
- MOROZHENKO, N. N. / Radiation Transfer in Prominences with Filamentary Structure (*Errata*) **62**, 223 (**58**, 47)
- MOROZHENKO, N. N. / On the Excitation of Lower Levels of Singlet Helium in Quiescent Prominences **92**, 153
- MORRISON, R. A., *see* Beckers, J. M.
- MOSCHI, G., *see* Caccin, B. *et al.*
- MOSHER, J. M. / The Height Structure of Solar Active Regions at X-Ray Wavelengths as Deduced from OSO-8 Limb Crossing Observations **64**, 109
- MOSHER, J. M. and L. W. ACTON / X-Rays, Filament Activity and Flare Prediction **66**, 105
- MOSHER, J. M. and T. P. POPE / A Statistical Study of Spicule Inclinations **53**, 375
- MOSHER, J., *see* Pope, T.
- MOSIER, S. R. and J. FAINBERG / A New High-Speed Solar Spectrograph for Meter and Decimeter Wavelengths **40**, 501
- MOSIER, S. R., *see* Van Allen, J. A.
- MOTTA, S., *see* Belvedere, G. *et al.*
- MOTTA, S., *see* Serio, S. *et al.*
- MOUNT, G. H., J. L. LINSKY, and R. A. SHINE /

- MOUNT, G. H. and J. L. LINSKY / One- and Multi-One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. I: The Violet System of CN(0,0) **32**, 13
Component Models of the Upper Photosphere Based on Molecular Spectra. II: CN (1,1) of the CN Violet System **35**, 259
- MOUNT, G. H. and J. L. LINSKY / One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. III: CH(0,0) λ 3144 of the CH C-X System **36**, 287
- MOUNT, G. H. and J. L. LINSKY / One- and Multi-Component Models of the Upper Photosphere Based on Molecular Spectra. IV: Non-LTE Treatment of the CN Violet System **41**, 17
- MOURADIAN, Z. / La diffusion des spicules dans la couronne solaire **2**, 258
- MOURADIAN, Z. / Raies nouvelles observées lors de l'éclipse du 7 Mars 1970 **24**, 368 (*Research Note*)
- MOURADIAN, Z. et J. L. LEROY / Temperature et microturbulence dans les régions externes des protubérances **51**, 103
- MOURADIAN, Z. et G. SIMON / Les bulles chromosphériques **42**, 311
- MOURADIAN, Z. et I. SORU-ESCAUT / Quelques résultats d'observation des spicules chromosphériques en K et D3 **50**, 69
- MOURADIAN, Z., M. J. MARTRES, and I. SORU-ESCAUT / The Emerging Magnetic Flux and the Elementary Eruptive Phenomenon **87**, 309
- MOURADIAN, Z., *see* Dollfus, A.
- MOURADIAN, Z., *see* Dollfus, A. *et al.*
- MOURADIAN, Z., *see* Dumont, S. *et al.*
- MOURADIAN, Z., *see* Fang, C. *et al.*
- MOURADIAN, Z., *see* Schmahl, E. J. *et al.*
- MOUSSAS, X. / Particle Trapping and Acceleration during the August 1972 Event **67**, 163
- MOUSSAS, X. and B. TRITAKIS / Latitudinal and Solar-Cycle Dependence of the Interplanetary Magnetic Field Predominant Polarity **75**, 361
- MOUSSAS, X., N. PAPASTAMATIOU, V. RUŠIN, and M. RYBANSKÝ / North-South Asymmetries in the 530.3 nm Coronal Line from 1958 to 1980 **84**, 71
- MOUSSAS, X., *see* Valdés Galicia, J. F. *et al.*
- MOZER, M., *see* Bräuninger, H. *et al.*
- MUGRIDGE, E. G. V., *see* Ramsay, J. V.
- MUGRIDGE, E. G. V., *see* Ramsay, J. V. *et al.*
- MULLAN, D. J. / On the Possibility of Constructing a Radiative Sunspot Model in Magnetohydrostatic Equilibrium **30**, 75
- MULLAN, D. J. / Correction of Sunspot Intensities for Scattered Light **32**, 65
- MULLAN, D. J. / Comments on Papers by P. R. Wilson Concerning Sunspots **32**, 441 (*Research Note*)
- MULLAN, D. J. / Is Magnetic Convection Important in the Sun? **38**, 9
- MULLAN, D. J. / Solar and Stellar Flares **54**, 183 (*Invited Review*)
- MULLAN, D. J. / Enhanced Emission of Alfvén Waves from Sunspots during Proton Flares **70**, 381
- MULLAN, D. J. and I. A. AHMAD / Coronal Holes: Mass Loss Driven by Magnetic Reconnection **75**, 347 (*Research Note*)
- MULLAN, D. J. and K. H. SCHATTEN / Motion of Solar Cosmic Rays in the Coronal Magnetic Field **62**, 153
- MULLAN, D. J. and H. S. YUN / Can Oscillations Grow in a Sunspot Umbra? **30**, 83
- MÜLLER, Edith A., Bodo BASCHEK, and Hartmut HOLWEGER / Center-to-Limb Analysis of the Solar Oxygen Lines **3**, 125
- MÜLLER, E. A., E. PEYTREMAN, and R. DE LA REZA / The Solar Lithium Abundance. II: Synthetic Analysis of the Solar Lithium Feature at λ 6707.8 Å **41**, 53
- MÜLLER, E. A., *see* Barambon, C.
- MÜLLER, E. A., *see* Brault, J. W.
- MÜLLER, E. A., *see* De la Reza, R.
- MÜLLER, E. A., *see* Holweger, H.
- MÜLLER, E. A., *see* Stettler, P. *et al.*
- MÜLLER, K., *see* Elwert, G. *et al.*
- MULLER, R. / Étude morphologique et cinématique des structures fines d'une tache solaire **29**, 55
- MULLER, R. / Étude photométrique des structures fines de la pénombre d'une tache solaire **32**, 409
- MÜLLER, R. / A Model of Photospheric Faculae Deduced from White Light High Resolution Pictures **45**, 105
- MULLER, R. / Characteristics of the Displacement of the Penumbra Bright Grains of Sunspots **48**, 101 (*Research Note*)
- MULLER, R. / Morphological Properties and Origin of the Photospheric Facular Granules **52**, 249
- MULLER, R. / The Fine Structure of Light-Bridges in Sunspots **61**, 297 (*Research Note*)
- MULLER, R. / The Dynamical Behavior of Facular Points in the Quiet Photosphere **85**, 113
- MULLER, R. / On the Structure of Sunspot Penumbra **98**, 51 (*Research Note*)
- MULLER, R. / The Fine Structure of the Quiet Sun **100**, 237 (*Invited Review*)
- MULLER, R. and S. L. KEIL / The Characteristic Size and Brightness of Facular Points in the Quiet Photosphere **87**, 243

- MULLER, R. and TH. ROUDIER / Variability of the Quiet Photospheric Network **94**, 33
- MULLER, R., *see* Kitai, R.
- MUMMA, M. J., *see* Deming, D. *et al.*
- MÜNCH, J. W., *see* Kirsch, E.
- MUNEY, W. S., *see* Underwood, J. H.
- MUNRO, R. H., A. K. DUPREE, and G. L. WITHBROE / Electron Densities Derived from Line Intensity Ratios: Beryllium Isoelectronic Sequence **19**, 347
- MUNRO, R. H. and D. G. SIME / White-Light Coronal Transients Observed from Skylab May 1973 to February 1974: a Classification by Apparent Morphology **97**, 191
- MUNRO, R. H., J. T. GOSLING, E. HILDNER, R. M. MACQUEEN, A. I. POLAND, and C. L. ROSS / The Association of Coronal Mass Ejection Transients with Other Forms of Solar Activity **61**, 201
- MUNRO, R. H., *see* Gosling, J. T. *et al.*
- MUNRO, R. H., *see* Gosling, J. T. *et al.*
- MUNRO, R. H., *see* Hildner, E. *et al.*
- MUNRO, R. H., *see* Joselyn, J. *et al.*
- MUNRO, R. H., *see* Saito, K. *et al.*
- MURAKAMI, T., *see* Tsuneta, S. *et al.*
- MURPHY, R. J., *see* Ramaty, R. *et al.*
- MURTHY, B. S., *see* Sastri, J. H.
- MURTY, P. S. / On Alf Lines in Sunspots **54**, 377 (*Research Note*)
- MURTY, P. S. / On Magnesium Monoxide Lines in Sunspot Spectra **63**, 83 (*Research Note*)
- MUSCHIETTI, L., M. V. GOLDMAN, and D. NEWMAN / Quenching of the Beam-plasma Instability by Large-Scale Density Fluctuations in 3 Dimensions **96**, 181
- MUSMAN, Steven / The Effect of Finite Resolution on Solar Granulation **7**, 178
- MUSMAN, S. / A Mechanism for the Exploding Granule Phenomenon **26**, 290
- MUSMAN, S. / The Origin of the Solar Five-Minute Oscillation **36**, 313
- MUSMAN, S. and D. M. RUST / Vertical Velocities and Horizontal Wave Propagation in the Solar Photosphere **13**, 261
- MUSMAN, S., *see* Allen, M. S.
- MUSMAN, S., *see* Parvey, M. I.
- MUSMAN, S., *see* Reif, R. J.
- MUTAO, S., *see* Xiaoqing, L.
- MUTH, L. A., *see* Smith, D. F.
- MUTSCHLECNER, J. P. and C. F. KELLER / Semi-Empirical Solar Line Blanketing. I: Statistical Basis and Method **14**, 294
- MUTSCHLECNER, J. P. and C. F. KELLER / Semi-Empirical Solar Line Blanketing. II: The Results of Blanketing in Solar Model Atmospheres **22**, 70
- MYKLAND, N. / Relative Umbral Intensity of a Large Sunspot **28**, 49
- MYKLAND, N., *see* Maltby, P.
- NAGAI, F. / A Model of Hot Loops Associated with Solar Flares. I: Gasdynamics in the Loops **68**, 351
- NAGAI, F., S. T. WU, and E. TANDBERG-HANSEN / Evolution of Electron and Proton Temperatures in a Flaring Loop. I: a Case of Thermal Heating of Electrons **84**, 271
- NAGANE, Kiyoshi, *see* Tsuchiya, Atsushi
- NAGASAWA, S. / Tokyo Astronomical Observatory **2**, 240 (*Report from Solar Institute*)
- NAITO, Y., *see* Takakura, T. *et al.*
- NAJITA, K. and F. Q. ORRAL / White Light Events as Photospheric Flares **15**, 176
- NAKADA, M. P. / A Study of the Composition of the Lower Solar Corona **7**, 302
- NAKADA, M. P. / A Study of the Composition of the Solar Corona and Solar Wind **14**, 457
- NAKADA, M. P. / On Coronal Temperatures, Temperature Gradients and Compositions **51**, 327
- NAKADA, M. P. / Coronal Hole Boundary Brightness in $\lambda 284$ of Fe XV **62**, 343 (*Research Note*)
- NAKADA, M. P., R. D. CHAPMAN, W. M. NEUPERT, and R. J. THOMAS / Abundance of Fe Relative to H at 1.5 Solar Radii **42**, 487
- NAKADA, N. P., R. P. CHAPMAN, W. M. NEUPERT, and R. J. THOMAS / OSO-7 Results on Coronal Emission near 304 \AA **43**, 337
- NAKADA, M. P., R. D. CHAPMAN, W. M. NEUPERT, and R. J. THOMAS / Coronal Temperatures and Temperature Gradients from OSO-7 Spectroheliograms **47**, 611
- NAKADA, M. P., R. D. CHAPMAN, W. M. NEUPERT, and R. J. THOMAS / On Coronal Fe Abundances and Temperatures from XUV Emission Lines **53**, 435
- NAKADA, M. P., W. M. NEUPERT, and R. J. THOMAS / Polarization Results of Solar X-Rays from OSO-7 **37**, 429
- NAKAGAWA, Y. / Thermal and Dynamical Stability of Prominences **12**, 419
- NAKAGAWA, Y. / The Modulations of Trapped Oscillations in the Solar Chromosphere by Magnetic Fields **33**, 87
- NAKAGAWA, Y. and J. MCKIM MALVILLE / Periodic Structures in Quiescent Prominences **9**, 102
- NAKAGAWA, Y. and M. A. RAADU / On Practical Representation of Magnetic Field **25**, 127
- NAKAGAWA, Y. and R. E. WELCK / Numerical Studies of Azimuthal Modulations of the Solar Wind with Magnetic Fields **32**, 257
- NAKAGAWA, Y., M. A. RAADU, and J. W. HARVEY

- / The Topological Association of H α Structures and Magnetic Fields **30**, 421
- NAKAGAWA, Y., M. A. RAADU, D. E. BILLINGS, and D. MCNAMARA / On the Topology of Filaments and Chromospheric Fibrils near Sunspots **19**, 72
- NAKAGAWA, Y., R. S. STEINOLFSON, and S. T. WU / On Build-up of Magnetic Energy in the Solar Atmosphere **47**, 193
- NAKAGAWA, Y., S. T. WU, and S. M. HAN / A Kinematic Model of a Solar Flare **30**, 111
- NAKAGAWA, Y., S. T. WU, and E. TANDBERG-HANSEN / Dynamic Response of an Isothermal Static Corona to Finite-Amplitude Disturbances **41**, 387
- NAKAGAWA, Yoshinari, *see* Altschuler, Martin D.
- NAKAGAWA, Y., *see* Henoux, J. C.
- NAKAGAWA, Y., *see* Kato, S.
- NAKAGAWA, Y., *see* Kato, Shoji
- NAKAGAWA, Y., *see* Lilliequist, C. G. *et al.*
- NAKAGAWA, Y., *see* Neupert, W. M. *et al.*
- NAKAGAWA, Y., *see* Raadu, M. A.
- NAKAGAWA, Y., *see* Rust, D. M. *et al.*
- NAKAGAWA, Y., *see* Tanaka, K.
- NAKAGAWA, Y., *see* Wu, S. T. *et al.*
- NAKAI, Y., *see* Kawaguchi, I. *et al.*
- NAKAI, Y., *see* Kurokawa, H. *et al.*
- NAKAJIMA, H. / Particle Acceleration in the 1981, April 1, Flare **86**, 427
- NAKAJIMA, H., *see* Akabane, K. *et al.*
- NAKAJIMA, H., *see* Kai, K. *et al.*
- NAKAJIMA, H., *see* Kai, K. *et al.*
- NAKAYAMA, K., *see* Kurokawa, H. *et al.*
- NAMBA, O. and W. E. DIEMEL / A Morphological Study of the Solar Granulation **7**, 167
- NAMBA, O., *see* Houtgast, J. *et al.*
- NARAIN, U. and M. KUMAR / On Heating and Cooling in Some Active Region Loops **99**, 111
- NARAIN, U. and S. CHANDRA / Improved Solar Coronal Temperature for Equal Green and Red Line Intensities **47**, 607
- NARAIN, U., H. P. MITAL, and S. CHANDRA / Radiative Recombination in Some Ions of Astrophysical Interest **52**, 417
- NARAIN, U., *see* Chandra, S.
- NARAIN, U., *see* Jain, N. K.
- NARAIN, U., *see* Kumar, M.
- NARAIN, U., *see* Mital, H. P.
- NARAIN, U., *see* Mital, H. P.
- NARASIMHA, D., *see* Antia, H. M. *et al.*
- NAUER, D. J., R. G. TESKE, and G. E. ELSTE / Characteristics of Plage Fragments with Photospheric Network Properties **67**, 23
- NAUMOV, A. I., *see* Efanov, V. A.
- NAVE, M. F. F., *see* Matsuura, O. T.
- NECKEL, H. and D. LABS / Improved Data of Solar Spectral Irradiance from 0.33 to 1.25 μ **74**, 231
- NECKEL, H. and D. LABS / The Solar Radiation between 3300 and 125000 Å **90**, 205
- NECKEL, H. and D. LABS / The Solar Radiation between 3300 and 12500 Å (*Errata*) **92**, 391 (**90**, 205)
- NECKEL, H. and D. LABS / Solar Line Blocking for Disk-Center and Disk-Averaged Radiation from 3300 to 6860 Å **95**, 229
- NECKEL, H., *see* Labs, D.
- NECKEL, H., *see* Thuillier, G. *et al.*
- NEEL, Carr B., Roy N. GRIFFIN and John P. MILLARD / Studies Related to Satellite Thermal Control: Measurements of Earth-Reflected Sunlight and Stability of Thermal-Control Coatings **6**, 235
- NEIDIG, D. F., Jr. / A Chromospheric Temperature Inversion and Its Implications on Millimeter Brightness Distribution **33**, 63
- NEIDIG, D. F., JR. / Microwave Burst Spectra and Solar Flare Magnetic Fields **54**, 165 (*Research Note*)
- NEIDIG, D. F., JR. / H α , Hard X-Ray, and Microwave Emissions in the Impulsive Phase of Solar Flares **57**, 385
- NEIDIG, D. F. / High Resolution Observations of Fibril Changes in a Small Flare **61**, 121
- NEIDIG, D. F. / Solar Rotation Studies Using Sunspot Data (1967–1974) **66**, 205
- NEIDIG, D. F. / Optical Properties of Bipolar Flare Kernels Associated with Asymmetric Magnetic Loops **70**, 129
- NEIDIG, D. F. / Spectral Analysis of the Optical Continuum in the 24 April 1981 Flare **85**, 285
- NEIDIG, D. F. and R. O. BECK / On the Color of the 26 February 1981 White-Light Flare **78**, 225 (*Research Note*)
- NEIDIG, D. F. and E. W. CLIVER / The Occurrence Frequency of White-Light Flares **88**, 275
- NEIDIG, D. F. and P. H. WIBORG, JR. / The Hydrogen Emission Spectrum in Three White-Light Flares **92**, 217
- NEIDIG, D. F., Jr., *see* Hagen, J. P.
- NELSON, G. D. / A Two-Dimensional Solar Model **60**, 5
- NELSON, G. D., *see* Beckers, J. M.
- NELSON, G. J., *see* Gergely, T. E. *et al.*
- NELSON, G. J., *see* Sheridan, K. V. *et al.*
- NELSON, G., *see* Švestka, Z. *et al.*
- NERNEY, S. F. and S. T. SUESS / Meridional Flow in the Solar Wind in the Presence of Latitudinally Dependent Boundary Conditions **45**, 255
- NERNEY, S. F., *see* Suess, S. T.

- NESIS, A., *see* Brandt, P. N.
- NESIS, A., *see* Durrant, C. J. *et al.*
- NESIS, A., *see* Kneer, F. J. *et al.*
- NESIS, A., *see* Mattig, W.
- NESIS, A., *see* Mattig, W.
- NESIS, A., *see* Mattig, W.
- NESMJANOVICH, A. T., *see* Koutchmy, S. *et al.*
- NESS, Norman F. and John M. WILCOX / Interplanetary Sector Structure, 1962–1966 **2**, 351
- NESS, Norman F., *see* Burlaga, L. F.
- NESS, N. F., *see* Mariani, F. *et al.*
- NESS, Norman F., *see* Sari, James W.
- NESS, Norman F., *see* Schatten, Kenneth H.
- NESS, Norman F., *see* Wilcox, John M.
- NESS, N., *see* Dobrowolny, M. *et al.*
- NESTEROV, N. S., *see* Kotov, V. A. *et al.*
- NEUBAUER, F. M., *see* Riesebieter, W.
- NEUBAUER, F. M., *see* Valdés Galicia, J. F. *et al.*
- NEUGEBAUER, M. M. and W. C. FELDMAN / Relation between Superheating and Superacceleration of Helium in the Solar Wind **63**, 201
- NEUGEBAUER, M., *see* Burlaga, L. F. *et al.*
- NEUPERT, W. M. / The Solar Corona above Active Regions: a Comparison of Extreme Ultraviolet Line Emission with Radio Emission **2**, 294
- NEUPERT, W. M. / Satellite Lines in the Solar X-Ray Spectrum **18**, 474
- NEUPERT, W. M. / Implications for Flare Build-up and Heating from Observations Made by OSO-7 **47**, 217 (*extended abstract*)
- NEUPERT, W. M. / The Solar Physics Shuttle/Spacelab Program and Its Relationship to Studies of the Flare Build-up **47**, 391 (*Invited Report*)
- NEUPERT, W. M., Y. NAKAGAWA, and D. M. RUST / Energy Balance in a Magnetically Confined Coronal Structure Observed by OSO-7 **43**, 359
- NEUPERT, W. M., M. SWARTZ, and S. O. KASTNER / Solar Flare Line Emission between 6 Å and 25 Å **31**, 171
- NEUPERT, W. M., R. J. THOMAS, and R. D. CHAPMAN / Spatial Distribution of Soft X-Ray and EUV Emission Associated with a Chromospheric Flare of Importance 1B on August 2, 1972 **34**, 349
- NEUPERT, W. M., W. A. WHITE, W. J. GATES, M. SWARTZ and R. M. YOUNG / X-Ray and Extreme Ultraviolet (1–400 Å) Spectroscopy of the Sun, from OSO-III **6**, 183
- NEUPERT, W. M., *see* Kastner, S. O. *et al.*
- NEUPERT, W. M., *see* Kastner, S. O. *et al.*
- NEUPERT, W. M., *see* Mason, H. E. *et al.*
- NEUPERT, W. M., *see* Nakada, M. P. *et al.*
- NEUPERT, W. M., *see* Nakada, M. P. *et al.*
- NEUPERT, W. M., *see* Phillips, K. J. H.
- NEUPERT, W. M., *see* Phillips, K. J. H. *et al.*
- NEUPERT, W. M., *see* Rust, D. M. *et al.*
- NEUPERT, W. M., *see* Underwood, J. H.
- NEVEN, L., *see* De Jager, C.
- NEVEN, L., *see* De Jager, C.
- NEWBY, J. S., *see* Kirk, J. G.
- NEWKIRK, G., JR. and HALKA CHRONIC / The High Altitude Observatory of the National Center for Atmospheric Research, Boulder, Colo. **7**, 331 (*Report from Solar Institute*)
- NEWKIRK, G., JR., and John HARVEY / Coronal Polar Plumes **3**, 321
- NEWKIRK, G., JR., R. G. DUPREE, and E. J. SCHMAHL / Magnetic Fields and the Structure of the Solar Corona. III: The Observed Connection between Magnetic Fields and the Density Structure of the Corona **13**, 131
- NEWKIRK, G., JR., R. G. DUPREE, and E. J. SCHMAHL / Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona **15**, 15
- NEWKIRK, GORDON, JR., ROBERT G. DUPREE, and EDWARD J. SCHMAHL / Magnetic Fields and the Structure of the Solar Corona. II: Observations of the 12 November 1966 Solar Corona **16**, 250 (**15**, 15)
- NEWKIRK, G., JR., D. E. TROTTER, and M. D. ALTSCHULER / Atlas of Magnetic Fields in the Solar Corona **24**, 370 (*Research Note*)
- NEWKIRK, G., JR., *see* Altschuler, M. D.
- NEWKIRK, G., JR., *see* Altschuler, M. D. *et al.*
- NEWKIRK, G., JR., *see* Altschuler, M. D. *et al.*
- NEWKIRK, G., JR., *see* Altschuler, M. D. *et al.*
- NEWKIRK, G., JR., *see* Hill, F.
- NEWKIRK, G., JR., *see* Hill, F.
- NEWKIRK, G., JR., *see* Trotter, D. E.
- NEWKIRK, G., JR., *see* Uchida, Y. *et al.*
- NEWKIRK, G., JR., *see* Wagner, W. J. *et al.*
- NEWMAN, C. E., *see* Knight, J. W. *et al.*
- NEWMAN, C. E. (ed.), *see* Sturrock, P. A. *et al.* (eds.)
- NEWMAN, D., *see* Muschietti, L. *et al.*
- NEWSTEAD, R. A. / Solar Limb Brightening and Enhancement Measurements at 1.2 mm **6**, 56
- NG, C. K. and L. J. GLEESON / The Propagation of Solar Cosmic-Ray Bursts **20**, 166
- NG, C. K. and L. J. GLEESON / Propagation of Solar-Flare Cosmic Rays along Corotating Interplanetary Flux-Tubes **43**, 475
- NG, C. K. and L. J. GLEESON / A Complete Model of the Propagation of Solar-Flare Cosmic Rays **46**, 347
- NICHOLLS, R. W., *see* Yang, C. Y. *et al.*
- NICKEL, George H. / The Maintenance of Solar

- Differential Rotation by Two-Dimensional Turbulence. A Numerical Model **10**, 472
- NICOLAIDES, C. A. and O. SINANOGLU / A Proposed Correction to the Solar Abundances of Carbon and Oxygen Utilizing New and Accurate Theoretical Forbidden Transition Probabilities **29**, 17
- NICOLAIDIS, E., *see* Alissandrakis, C. E. *et al.*
- NICOLAS, K. R., G. E. BRUECKNER, R. TOUSEY, D. A. TRIPP, O. R. WHITE, and R. G. ATHAY / Solar EUV Emission Line Profiles of SiII and SiIII and their Center to Limb Variations **55**, 305
- NICOLAS, K. R., O. KJELDSETH-MOE, J.-D. F. BARTOE, and G. E. BRUECKNER / High Resolution EUV Structure of the Chromosphere-Corona Transition Region above a Sunspot **81**, 253
- NICOLAS, K. R., *see* Brueckner, G. E.
- NICOLIS, C. / Solar Variability and Stochastic Effects on Climate **74**, 473
- NIEL, M., *see* Chambon, G. *et al.*
- NIEL, M., *see* Hurley, K. *et al.*
- NIEUWKOOP, J. VAN, *see* De Groot, T.
- NIKAIDOU, Y. / Na I D Brightening Phenomena in Quiescent Prominences **80**, 259
- NIKAIDOU, Y. and I. KAWAGUCHI / On the Intensity Ratio of Emission Lines of Na I D₁ to D₂ in Prominences **84**, 49
- NIKOLSKAYA, K. / Measurement of the Relative Intensities of He I-H8 Lines λ 3889 Å in the Spectrum of the Chromospheric Spicules at Various Heights above the Limb **56**, 71
- NIKOLSKAYA, K. I. and V. G. UTROBIN / The Coronal Disturbance (W90°, N«A»25°) in the Eclipse Spectra of Jul 31, 1981 **91**, 141
- NIKOLSKAYA, K. I., *see* Nikolsky, G. M. *et al.*
- NIKOLSKY, G. A., *see* Kondratyev, K. Ya.
- NIKOLSKY, G. M. / The Energy Distribution in the Solar EUV Spectrum and Abundance of Elements in the Solar Atmosphere **6**, 399
- NIKOLSKY, G. M. / The Observation of the Chromospheric Fine Structure by the 53-cm Lyot Coronagraph **12**, 379
- NIKOLSKY, G. M. and A. G. PLATOVA / Motions of H α -Spicules along the Solar Limb **18**, 403
- NIKOLSKY, G. M., R. A. GULYAEV, and K. I. NIKOLSKAYA / Spectrophotometry of the Corona and a Quiescent Prominence Based on Observations of the Total Solar Eclipse of 7 March, 1970 in Mexico **21**, 332
- NIKOLSKY, G. M., I. S. KIM, and S. KOUTCHMY / Measurements of the Magnetic Field in Solar Prominences with a Spectrally Scanning Magnetograph **81**, 81
- NIKOLSKY, G. M., A. A. SAZANOV, and A. K. KISHONKOV / The Polarization of the Inner Solar Corona at the Eclipse of 10 July 1972 **53**, 79
- NIKOLSKY, G. M., *see* Ajmanov, A. K.
- NIKOLSKY, G. M., *see* Gnevyshev, M. N.
- NIKOLSKY, G. M., *see* Kim, I. S.
- NIKOLSKY, G. M., *see* Kim, I. S.
- NIKOLSKY, G. M., *see* Kulidzanishvili, V. I.
- NIKOLSKY, G. M., *see* Makhmudov, M. M. *et al.*
- NIKOLSKY, G. M., *see* O en Den *et al.*
- NISHI, K. / Observation of the Absolute Intensity and the Centre-to-Limb Variation of the Sun in the Vacuum Ultraviolet Region **33**, 23
- NISHI, K. / Observations of the Absolute Intensity of the Sun in the Vacuum Ultraviolet Region **42**, 37
- NISHIKAWA, K.-I., *see* Sakai, J.
- NISHIKAWA, T. / Origin of the Weakening of EUV Emission Lines Formed in the Chromosphere-Corona Transition Zone **85**, 65
- NISHIKAWA, T. / Wavelength-Dependence of EUV Continuum Absorption **93**, 37
- NISHIKAWA, T., *see* Kanno, M. *et al.*
- NISHIKAWA, T., *see* Shibata, K. *et al.*
- NISHIKAWA, T., *see* Suematsu, Y. *et al.*
- NISHI, K., *see* Hirayama, T. *et al.*
- NISHIMURA, J., *see* Takakura, T. *et al.*
- NITA, I. / A Probable Mean Transit Time of the Flare-Generated Disturbances **36**, 145
- NITTA, N., T. TAKAKURA, K. OHKI, and M. YOSHIMORI / Hard X-Ray Dynamic Spectra Observed by HINOTORI **86**, 241
- NITTA, N., *see* Degaonkar, S. S. *et al.*
- NITTA, N., *see* Ohki, K. *et al.*
- NITTA, N., *see* Takakura, T. *et al.*
- NITTA, N., *see* Tanaka, K. *et al.*
- NITTA, N., *see* Tsuneta, S. *et al.*
- NITTA, N., *see* Watanabe, T. *et al.*
- NOBLES, R. A., *see* Acton, L. W. *et al.*
- NOCERA, L., YU. I. SKRYNNIKOV, and B. V. SOMOV / Hard X-Ray Bremsstrahlung Produced by Electrons Escaping a High-Temperature Thermal Source in a Solar Flare **97**, 81
- NOCI, G. / Energy Budget in Coronal Holes **28**, 403
- NOCI, G. / Siphon Flows in the Solar Corona **69**, 63
- NOCI, G. and F. ZUCCARELLO / Flow in Coronal Loops with a Mass Source **88**, 193
- NOCI, G., *see* Borriini, G.
- NOCI, G., *see* Borriini, G.
- NOCI, G., *see* Chiuderi, C. *et al.*
- NOCI, G., *see* Chiuderi, C. *et al.*
- NOCI, G. G., *see* Drago, F. G.
- NOCI, G., *see* Degl'Innocenti, E. L.

- NOCI, G., *see* Kopp, R. A. *et al.*
- NOENS, J. C., *see* Rozelot, J. P. *et al.*
- NOENS, J.-C. and J.-L. LEROY / Measuring Electron Density in Coronal Active Regions. I: a K-Coronameter with a Reflex Monitor at $\lambda 5303$ Å **73**, 81
- NOËNS, J. C., J. PAGEAULT, and G. RATIER / Measuring Electron Density in Coronal Active Regions. II: a Multichannel Coronagraph with a Photoelectric Spectrograph and a Reflex Monitor at $\lambda 5303$ Å **94**, 117
- NOËNS, J. C., J. PAGEAULT, and G. RATIER / Measuring Electron Density in Coronal Active Regions. II: A Multichannel Coronagraph with a Photoelectric Spectrograph and a Reflex Monitor at $\lambda 5303$ Å (*Errata*) **95**, 199 (**94**, 117)
- NOLTE, J. T. and E. C. ROELOF / Large-Scale Structure of the Interplanetary Medium. I: High Coronal Source Longitude of the Quiet-Time Solar Wind **33**, 241
- NOLTE, J. T. and E. C. ROELOF / Large-Scale Structure of the Interplanetary Medium. II: Evolving Magnetic Configurations Deduced from Multi-Spacecraft Observations **33**, 483
- NOLTE, J. T., J. M. DAVIS, M. GERASSIMENKO, A. S. KRIEGER, C. V. SOLODYNA, and L. GOLUB / The Relationship between Solar Activity and Coronal Hole Evolution **60**, 143
- NOLTE, J. T., J. M. DAVIS, and J. D. SULLIVAN / Solar Wind Stream Structure during the Early Phase of Solar Cycles 20 and 21 **60**, 207 (*Research Note*)
- NOLTE, J. T., M. GERASSIMENKO, A. S. KRIEGER, R. D. PETRASSO, Z. ŠVESTKA, and D. G. WENTZEL / Do Changes in Coronal Emission Structure Imply Magnetic Reconnection? **55**, 401
- NOLTE, J. T., M. GERASSIMENKO, A. S. KRIEGER, and C. V. SOLODYNA / Coronal Hole Evolution by Sudden Large Scale Changes **56**, 153
- NOLTE, J. T., M. GERASSIMENKO, A. S. KRIEGER, R. D. PETRASSO, and Z. ŠVESTKA / Study of the Post-Flare Loops on 29 July 1973. I: Dynamics of the X-Ray Loops **62**, 123
- NOLTE, J. T., A. S. KRIEGER, A. F. TIMOTHY, G. S. VAIANA, and M. V. ZOMBECK / An Atlas of Coronal Hole Boundary Positions May 28 to November 21, 1973 **46**, 291
- NOLTE, J. T., A. S. KRIEGER, A. F. TIMOTHY, R. E. GOLD, E. C. ROELOF, G. VAIANA, A. J. LAZARUS, J. D. SULLIVAN, and P. S. MCINTOSH / Coronal Holes as Sources of Solar Wind **46**, 303
- NOLTE, J. T., A. S. KRIEGER, and C. V. SOLODYNA / Short Term Evolution of Coronal Hole Boundaries **57**, 129
- NOLTE, J. T., A. S. KRIEGER, E. C. ROELOF, and R. E. GOLD / High Coronal Structure of High Velocity Solar Wind Stream Sources **51**, 459
- NOLTE, J. T., C. V. SOLODYNA, and M. GERASSIMENKO / Short-Term Temporal Variations of X-Ray Bright Points **63**, 113
- NOLTE, J. T., *see* Gerassimenko, M. *et al.*
- NOLTE, J. T., *see* McIntosh, P. S. *et al.*
- NOLTE, J. T., *see* Petrasso, R. D. *et al.*
- NOLTE, J. T., *see* Solodyna, C. V. *et al.*
- NOLTE, J. T., *see* Švestka, Z. *et al.*
- NOLTE, J. T., *see* Švestka, Z. *et al.*
- NOLTE, J. T., *see* Webb, D. F. *et al.*
- NORDLUND, Å. / Solar Convection **100**, 209 (*Invited Review*)
- NORDLUND, Å., *see* Wöhl, H.
- NORTHRUP, T. G. and T. J. BIRMINGHAM / Stability of Tangential Discontinuities **14**, 226
- NORTON, D. G., *see* Ramsay, J. V.
- NOVACO, J. C., *see* Weber, R. R. *et al.*
- NOVEMBER, L. J., *see* Altrock, R. C. *et al.*
- NOVEMBER, L. J., *see* Hill, F. *et al.*
- NOVICK, R., *see* Lemen, J. R. *et al.*
- NOVICK, R., *see* Parkinson, J. H. *et al.*
- NOYES, R. W. / Stellar Analogs of Solar Magnetic Activity **100**, 385 (*Invited Review*)
- NOYES, R. W. and W. KALKOFEN / The Solar Lyman Continuum and the Structure of the Solar Chromosphere **15**, 120
- NOYES, R. W., J. M. BECKERS and F. J. LOW / Observational Studies of the Solar Intensity Profile in the Far Infrared and Millimeter Regions **3**, 36
- NOYES, R. W., T. R. AYRES, and D. N. B. HALL / Equator-Pole Temperature Difference and the Solar Oblateness **28**, 343 (*Research Note*)
- NOYES, R. W., G. L. WITHBROE, and R. P. KIRSHNER / Extreme Ultraviolet Observations of Active Regions in the Chromosphere and the Corona **11**, 388
- NOYES, R. W., *see* Emslie, A. G.
- NOYES, R. W., *see* Gingerick, O. *et al.*
- NOYES, R. W., *see* Kanno, M. *et al.*
- NOYES, R. W., *see* Kirshner, R. P.
- NOYES, R. W., *see* Machado, M. E.
- NOYES, R. W., *see* Pasachoff, Jay M.
- NOYES, R. W., *see* Raymond, J. C. *et al.*
- NOYES, R. W., *see* Reeves, E. M. *et al.*
- NOYES, R. W., *see* Schmahl, E. J. *et al.*
- NOYES, R. W., *see* Simon, G. W.
- NOYES, R. W., *see* Simon, G. W. *et al.*
- NOYES, R. W., *see* Vernazza, J. E.
- NOYES, R. W., *see* Vernazza, J. E.
- NOYES, R. W., *see* Withbroe, G. L. *et al.*

- NOYES, R. W., *see* Wood, A. T.
 NOYES, R. W., *see* Wood, A. T. *et al.*
 NUSSBAUMER, H. / The Importance of Temperature Variations in the Formation of Line Profiles **3**, 349 (*Research Note*)
 NYACK, C., *see* Achong, A. *et al.*
 NYE, A. H. and J. H. THOMAS / The Nature of Running Penumbral Waves **38**, 399
 NYE, A. H. and J. V. HOLLWEG / Alfvén Waves in Sunspots **68**, 279
 NYE, A. H., *see* Simon, G. W. *et al.*
 O EN DEN, I. S. KIM, and G. M. NIKOLSKY / Measurement of the Prominences Magnetic Field **52**, 35 (*Research Note*)
 OBASHEV, S. / The High Altitude Solar Station Peak Alma-Ata **16**, 493 (*Report from Solar Institute*)
 OBAYASHI, T. / Energy Build-up and Release Mechanisms in Solar and Auroral Flares **40**, 217
 OBAYASHI, T. / Key Problems in Auroral Flare Processes **47**, 367 (*invited summary*)
 OBRIDKO, V. N. and L. B. DEMKINA / On the Interpretation of the π -Component Splitting in Sunspot Spectra **24**, 336
 OBRIDKO, V. N., *see* Ioshpa, B. A. *et al.*
 OBRIDKO, V., *see* Bumba, V.
 OBRIDKO, V., *see* Kopecký, M.
 OBRIDKO, V., *see* Krivský, L.
 OBRIDKO, V., *see* Mogilevsky, E. *et al.*
 O'BRIEN, J. E., S.J. / Interferometric Measurements of 142 Solar Wavelengths **19**, 314
 ODA, M., *see* Takakura, T. *et al.*
 ODA, M., *see* Tsuneta, S. *et al.*
 ODA, N. / Morphological Study of the Solar Granulation. III: The Mesogranulation **93**, 243
 ODA, N., *see* Kawaguchi, I. *et al.*
 OFSTAD, P., *see* Jensen, E.
 OGAWA, H. and K.-A. KAWABATA / Location of Radio Source at 35 GHz of 2145 UT 2 August 1972 Burst **40**, 159
 OGAWA, H., *see* Kato, T. *et al.*
 OGAWA, H., *see* Kawabata, K. *et al.*
 OGAWA, H., *see* Kawabata, K. *et al.*
 OGAWA, H., *see* Kawabata, K. *et al.*
 OGAWA, H., *see* Suzuki, I. *et al.*
 OGAWARA, Y., *see* Takakura, T. *et al.*
 OGAWARA, Y., *see* Tsuneta, S. *et al.*
 OGILVIE, K. W. and H. J. ZWALLY / Hydrogen and Helium Velocities in the Solar Wind **24**, 236
 OGILVIE, K. W. and L. F. BURLAGA / Hydro-magnetic Shocks in the Solar Wind **8**, 422
 OGILVIE, K. W. and L. F. BURLAGA / Hydro-magnetic Shocks in the Solar Wind (*Errata*) **11**, 180 (**8**, 422)
 OGILVIE, K. W. and T. D. WILKERSON / Helium Abundance in the Solar Wind **8**, 435
 OGILVIE, K. W., *see* Burlaga, L. F.
 OGILVIE, K. W., *see* Coplan, M. A. *et al.*
 OGILVIE, K. W., *see* Kunz, S. *et al.*
 OGILVIE, K. W., *see* Lazarus, A. J. *et al.*
 O'HANLON, M., *see* Kuhn, J. R.
 OHKI, Ken-Ichiro / Directivity of Solar Hard X-Ray Bursts **7**, 260
 OHKI, K. / Expansion of Chromospheric Matter in the Gradual Phase of Solar Flares **45**, 435
 OHKI, K. / Hard X-Ray and Microwave Observations of a Sympathetic Flare **47**, 305 (*title only*)
 OHKI, K. and H. S. HUDSON / The Solar-Flare Infrared Continuum **43**, 405
 OHKI, K., T. TAKAKURA, S. TSUNETA, and N. NITTA / General Aspects of Hard X-Ray Flares Observed by HINOTORI: Gradual Burst and Impulsive Burst **86**, 301
 OHKI, K., *see* Akabane, K. *et al.*
 OHKI, K., *see* Degaonkar, S. S. *et al.*
 OHKI, K., *see* Hudson, K. S.
 OHKI, K., *see* Nitta, N. *et al.*
 OHKI, K., *see* Takakura, T. *et al.*
 OHKI, K., *see* Takakura, T. *et al.*
 OHKI, K., *see* Takakura, T. *et al.*
 OHKI, K., *see* Takakura, T. *et al.*
 OHKI, K., *see* Takakura, T. *et al.*
 OHKI, K., *see* Tsuneta, S. *et al.*
 OHLSON, J. E., *see* Stelzried, C. T. *et al.*
 ÖHMAN, Yngve / An H α Filament observed against the Chromosphere at the Limb **3**, 354 (*Research Note*)
 ÖHMAN, Yngve / Experiences from 16 Years of Solar Work in Anacapri **4**, 493 (*Report from Solar Institute*)
 ÖHMAN, Y. / Observations of Rotational Motion in Prominences **9**, 427
 ÖHMAN, Y. / On Some Flare-Sensitive High Photospheric and Low Chromospheric Lines **10**, 178
 ÖHMAN, Y. / Remark on Rotational Motions in Flares and Prominences **23**, 134
 ÖHMAN, Y. / Some Comments on the Low Intensity of H α Emission Observed by J.-L. Leroy in the Solar Corona **23**, 399
 ÖHMAN, Y. / Selective Diffraction with Possible Application to Solar Research **34**, 253
 ÖHMAN, Y. / Plane Grating as Polar Heliostat in Eclipse Observations of the Chromosphere and Prominences with Special Application to Studies of Doppler-Widened Thomson-Scattered Fraunhofer Lines **62**, 407
 ÖHMAN, Y. / Are Plasma Satellites Present among Chromospheric Lines? **85**, 53

- ÖHMAN, Y. / Can Mirage Phenomena Be Traced on the Sun? **96**, 209
- ÖHMAN, Y., G. STIBER and U. KUSOFFSKY / Observations of a Flare Spray at the Solar Limb on July 11, 1966 **1**, 60
- OKAMOTO, T., *see* Hiei, E. *et al.*
- OKAMOTO, T., *see* Kirayama, T.
- OKUDAIRA, K., *see* Yoshimori, M. *et al.*
- olar Oscillations of Low Harmonic Degree l in Five-Minute Range (*Invited Review, Abstract*) **82**, 231
- OLEFERENKO, I. P., *see* Pudovkin, M. I. *et al.*
- OLSEN, K. H., C. R. ANDERSON, and J. N. STEWARD / Some Newly Discovered Coronal Emission Lines from High Altitude Infrared Observations of the 7 March, 1970 Solar Eclipse **21**, 360
- OLSON, E. C., *see* Dunn, A. R.
- OLSON, R. H. / Solar-Terrestrial Research and Services in the ESSA Research Laboratories, Environmental Science Services Administration, Boulder, Colo., U.S.A. **8**, 240 (*Report from Solar Institute*)
- O'MARA, B. J., *see* Kavetsky, A.
- O'MARA, B. J., *see* Kavetsky, A.
- OMODAKA, T., *see* Kato, T. *et al.*
- OMODAKA, T., *see* Kawabata, K. *et al.*
- OMODAKA, T., *see* Kawabata, K. *et al.*
- OMODAKA, T., *see* Kawamura, K. *et al.*
- OMONT, A., *see* Dumont, S. *et al.*
- OPARIN, S. N., *see* Bromboszcz, G. *et al.*
- OPARIN, S. N., *see* Krutov, V. V. *et al.*
- OPARIN, S. N., *see* Siarkowski, M. *et al.*
- OPARIN, S. N., *see* Siarkowski, M. *et al.*
- OPHER, R., *see* Strauss, F. M. *et al.*
- ORLOVA, T. V., *see* Kostik, R. I.
- ORLOVA, T. V., *see* Kostik, R. I.
- ORLOVA, T. V., *see* Kostik, R. I.
- ORRALL, F. Q. / Intensity Fluctuations in Fraunhofer Lines **23**, 30
- ORRALL, F. Q. and E. J. SCHMAHL / The Prominence-Corona Interface Compared with the Chromosphere-Corona Transition Region **50**, 365
- ORRALL, F. Q. and R. J. SPEER / Observations of the Inner F and K Coronas below $\lambda 2220$ **29**, 41
- ORRALL, F. Q., *see* Altschuler, M. D. *et al.*
- ORRALL, F. Q., *see* Cha, M. Y.
- ORRALL, F. Q., *see* Jefferies, J. T. *et al.*
- ORRALL, F. Q., *see* Livingston, W. C.
- ORRALL, F. Q., *see* Najita, K.
- ORUDZHEV, E. Sh., *see* Mamedov, S. G.
- ORWIG, L. E., K. J. FROST, and B. R. DENNIS / The Hard X-Ray Burst Spectrometer on the Solar Maximum Mission **65**, 25
- ORWIG, L. E., *see* Bai, T. *et al.*
- ORWIG, L. E., *see* Kaufmann, P. *et al.*
- ORWIG, L. E., *see* Kiplinger, A. L. *et al.*
- ORWIG, L. E., *see* Tandberg-Hanssen, E. *et al.*
- ORWIG, L. E., *see* Wu, S. T. *et al.*
- OSAKI, Y., *see* Shibahashi, H.
- OSHEROVITCH, V. A. / A Description of the Sunspot-Twisted Magnetic Field under 'Similarity' Assumption **64**, 261
- OSHEROVITCH, V. A. / A Note on Permissible Values of the Vertical Gradient of the Sunspot Magnetic Field **68**, 297
- OSHEROVICH, V. A. / A New Magneto-Hydrostatic Theory of Sunspots **77**, 63
- OSHEROVICH, V. / A Note on the Values of the Vertical Gradient of the Magnetic Field in the Return Flux Sunspot Model **90**, 31
- OSHEROVICH, V. A. / Magnetic Flux Tube in a Stratified Atmosphere under the Influence of the Vertical Magnetic Field **94**, 207
- OSHEROVICH, V. and T. FLAA / Sunspot Models with Twisted Magnetic Field **88**, 109
- OSHEROVICH, V. and J. K. LAWRENCE / Elaboration of the New Magnetohydrostatic Sunspot Theory (Double Return Flux Model) **88**, 117
- OSHEROVICH, V. A., E. B. GLINER, I. TZUR, and M. L. KUHN / The Magnetic and Thermodynamical Structure of a Coronal Hole **97**, 251
- OSHEROVITCH, V. A., *see* Krat, V. A.
- OSHEROVITCH, V. A., *see* Krat, V. A.
- OSTER, Ludwig / The Electrical Conductivity in Sunspot Regions **3**, 543
- OSTER, L., *see* Mariska, J. T.
- OSTER, L., *see* Sofia, S. *et al.*
- OTAOLA, J. A. and G. ZENTENO / On the Existence of Long-Term Periodicities in Solar Activity **89**, 209
- OTA, S., *see* Takakura, T. *et al.*
- OTTEN, G. R., *see* Snider, J. L. *et al.*
- PADILLA, S. P., *see* Howard, R. *et al.*
- PAES DE BARROS, M. H. and P. KAUFMANN / On the Long-Term Behaviour of the Circular Polarization from Coronal Condensation Radio Emission at 4.3 cm Wavelength **27**, 203
- PAES DE BARROS, M. H., *see* Kaufmann, P.
- PAGEAULT, J., *see* Noëns, J. C. *et al.*
- PAGE, D. E. / Opening Address-14th ESLAB Symposium **74**, 9
- PAGES, J. P., J. RÖSCH, et J. SAÏSSAC / Influence des perturbations thermiques de l'atmosphère sur la qualité des images solaires **51**, 481
- PAIZIS, C., *see* Cortellessa, P.
- PAIZIS, C., *see* Cortellessa, P. *et al.*
- PAKHOMOV, V. V., *see* Kobrin, M. M. *et al.*
- PALAGI, F., *see* Avignon, Y. *et al.*

- PALAMARCHUK, L. E., *see* Merkulenko, V. E. *et al.*
- PALENIUS, H. P., *see* Edlén, B.
- PALENIUS, H. P., *see* Lindgren, B.
- PALLAVICINI, R. and G. PERES / Hydrodynamics of Flaring Loops: SMM Observations and Numerical Simulations **86**, 147
- PALLAVICINI, R. and G. S. VAIANA / The Spatial Structure of a Solar Flare in Soft X-Rays and Centimetric Wavelengths **49**, 297
- PALLAVICINI, R. and G. S. VAIANA / The Flare of September 7, 1973: a Typical Example of a Newly Recognized Class of Solar Transients **67**, 127
- PALLAVICINI, R., G. S. VAIANA, S. W. KAHLER, and A. S. KRIEGER / Spatial Structure and Temporal Development of a Solar X-Ray Flare Observed from Skylab on June 15, 1973 **45**, 411
- PALLAVICINI, R., *see* Cheng, Chung-Chieh
- PALLAVICINI, R., *see* Felli, M. *et al.*
- PALLAVICINI, R., *see* Landini, M. *et al.*
- PALLAVICINI, R., *see* Landini, M. *et al.*
- PALLAVICINI, R., *see* MacNeice, P. *et al.*
- PALMEIRA, R. A. R. and F. R. ALLUM / Evidence for Confinement of Low-Energy Cosmic Rays ahead of Interplanetary Shock Waves **30**, 243
- PALMEIRA, R. A. R., F. R. ALLUM, and U. R. RAO / Low-Energy Proton Increases Associated with Interplanetary Shock Waves **21**, 204
- PALMEIRA, R. A. R., *see* Allum, F. R. *et al.*
- PALMEIRA, R. A. R., *see* Allum, F. R. *et al.*
- PALMEIRA, R. A. R., *see* Bartley, W. C. *et al.*
- PALMEIRA, R. A. R., *see* Bukata, R. P.
- PALMEIRA, R. A. R., *see* Bukata, R. P. *et al.*
- PALMEIRA, R. A. R., *see* Palmer, I. D. *et al.*
- PALMEIRA, R. A. R., *see* Rao, U. R. *et al.*
- PALMER, I. D. / Shock Wave Effects in Solar Cosmic Ray Events **27**, 466
- PALMER, I. D. / Energy Losses of Solar Cosmic Rays in Interplanetary Space **30**, 235
- PALMER, I. D. / A Type II Solar Radio Burst Observed in the Corona and in Interplanetary Space **37**, 443
- PALMER, I. D. and S. F. SMERD / Evidence for a Two-Component Injection of Cosmic Rays from the Solar Flare of 1969, March 30 **26**, 460
- PALMER, I. D., R. A. R. PALMEIRA, and F. R. ALLUM / Monte Carlo Model of the Highly Anisotropic Solar Proton Event of 20 April 1971 **40**, 449
- PALMER, I., *see* Allum, F. R. *et al.*
- PALMER, I., *see* Rao, U. R. *et al.*
- PALMIOTTO, F., *see* Cattaneo, M. B. *et al.*
- PALMIOTTO, F., *see* Formisano, V. *et al.*
- PALMIOTTO, F., *see* Moreno, G.
- PÄLSGÅRD, G. and J. O. STENFLO / A Fast and Accurate Guiding System **11**, 155 (*Research Note*)
- PÄLSGÅRD, G., *see* Kusoffsky, U.
- PALUTAN, F., *see* Cattaneo, M. B. *et al.*
- PAMPALONI, P., *see* Falchi, A. D. *et al.*
- PAMPALONI, P., *see* Felli, M. *et al.*
- PAMYATNYKH, A. A., *see* Kuzurman, P. A.
- PANDE, M. C. and G. C. JOSHI / Isotopic Lines of SiO in Sunspots **59**, 353 (*Research Note*)
- PANDE, M. C., V. P. GAUR and B. M. TRIPATHI / Molecules in the Solar Photosphere **7**, 17
- PANDE, M. C., V. P. GAUR and B. M. TRIPATHI / The Dependence of Facula-Photosphere Contrast in Molecular Lines on Dissociation Energy **7**, 370
- PANDE, M. C., *see* Gaur, V. P. *et al.*
- PANDE, M. C., *see* Gaur, V. P. *et al.*
- PANDE, M. C., *see* Joshi, G. C. *et al.*
- PANDE, M. C., *see* Joshi, G. C. *et al.*
- PANDE, M. C., *see* Shelke, R. N.
- PANDE, M. C., *see* Verma, V. K.
- PANDE, M. C., *see* Verma, V. K.
- PANDEY, S. K., *see* Antia, H. M. *et al.*
- PAOLINI, F., *see* Krieger, A. *et al.*
- PAPADOPOULOS, K., *see* Smith, R. A. *et al.*
- PAPAGIANNIS, M. D. / A Note on the Emission Frequency of the Type III Solar Radio Bursts **18**, 311 (*Research Note*)
- PAPAGIANNIS, M. D. and K. B. BAKER / Determination and Analysis of Coronal Hole Radio Spectra **79**, 365
- PAPAGIANNIS, M. D. and J. A. KOGUT / A Simple Derivation of Microwave Solar Brightness Temperatures and Polarizations from Thermal Regions **48**, 49
- PAPAGIANNIS, M. D., C. S. ZEREFOS, and C. C. REPAPIS / The Time-Latitude Distribution of Solar Flares Accompanied by Type IV Radio Bursts during the Period 1956 to 1969 **27**, 208
- PAPAGIANNIS, M. D., *see* Kandel, R. S. *et al.*
- PAPAGIANNIS, M. D., *see* Straka, R. M. *et al.*
- PAPAGIANNIS, M. D., *see* Wefer, F. L.
- PAPASTAMATIOU, N., *see* Moussas, X. *et al.*
- PAPATHANASOGLU, D. / Observation of Filamentary Structure in Sunspot Umbrae **21**, 113 (*Research Note*)
- PAPATHANASOGLU, D., *see* Deliyannis, J. *et al.*
- PAP, J. / Activity of Sunspots and Solar Constant Variations during 1980 **97**, 21
- PAPUSHEV, P. G. / Comments on the Mechanism for the Spicule Support **68**, 275 (*Research Note*)
- PARDON, L., S. P. WORDEN, and T. J. SCHNEEBERGER / The Lifetimes of Sunspot Moats **63**, 247 (*Research Note*)
- PARFENOV, O. G., *see* Zaitsev, V. V. *et al.*

- PARISI, M., *see* Iucci, N. *et al.*
- PARKER, E. N. / The Nature of the Sunspot Phenomenon. I: Solutions of the Heat Transport Equation **36**, 249
- PARKER, E. N. / The Nature of the Sunspot Phenomenon. II: Internal Overstable Modes **37**, 127
- PARKER, E. N. / The Nature of the Sunspot Phenomenon. III: Energy Consumption and Energy Transport **40**, 275
- PARKER, E. N. / The Nature of the Sunspot Phenomenon. IV: The Intrinsic Instability of the Magnetic Configuration **40**, 291
- PARKER, E. N. / Compression of Magnetic Field in a Viscous Boundary Layer **77**, 3
- PARKER, E. N. / The Future of Solar Physics **100**, 599 (*Invited Review*)
- PARKER, G. D. / Solar-Cycle Dependence of Galactic Cosmic Ray Flux. I: Coronal Indices **31**, 259
- PARKER, G. D., R. L. CHASSON, R. T. HANSEN, and S. F. HANSEN / Solar-Cycle Dependence of Galactic Cosmic Ray Flux. II: The Correlation between the Nucleonic Flux and Solar Indices **48**, 399
- PARKER, G. D., R. T. HANSEN, and S. F. HANSEN / Coronal Rotation during Solar Cycle 20 **80**, 185
- PARKINSON, J. H. / Time Variations in the X-Ray Emission of Solar Active Regions **28**, 137
- PARKINSON, J. H. / An Investigation of the Structure of Coronal Active Regions **28**, 487
- PARKINSON, J. H. / The Analysis of a High Resolution X-Ray Spectrum of a Solar Active Region **42**, 183
- PARKINSON, J. H., R. S. WOLFF, H. L. KESTENBAUM, W. H.-M. KU, J. R. LEMEN, K. S. LONG, R. NOVICK, R. J. SUOZZO, and M. C. WEISSKOPF / Silicon X-Ray Line Emission from Solar Flares and Active Regions **60**, 123
- PARKINSON, J. H., *see* Batstone, R. M. *et al.*
- PARKINSON, W. H. and E. M. REEVES / Measurements in the Solar Spectrum between 1400 and 1875 Å with a Rocket-Borne Spectrometer **10**, 342
- PARKINSON, W. H., *see* Jones, T. L. J. *et al.*
- PARKINSON, W. H., *see* Reeves, E. M.
- PARKINSON, W. H., *see* Withbroe, G. L. *et al.*
- PARKINSON, W. H., *see* Wood, A. T. *et al.*
- PARKS, G. K. and J. R. WINCKLER / The Relation of Energetic Solar X-Rays ($h\nu > 60$ keV) and High Frequency Microwaves Deduced from the Periodic Bursts of August 8, 1968 Flare **16**, 186
- PARKS, G. K., *see* Martres, M. *et al.*
- PARNELL, R. L. and J. M. BECKERS / The Interpretation of Velocity Filtergrams. I: The Effective Depth of Line Formation **9**, 35
- PARNELL, R. L., *see* Beckers, J. M.
- PARVEY, M. I. and S. MUSMAN / Bright-Dark Asymmetry in Solar Granulation **18**, 385
- PASACHOFF, J. M. / Fine Structure in Ca II on the Solar Disc **12**, 202
- PASACHOFF, J. M. / Absolute Intensity Calibrations of Solar K-Line Profiles **19**, 323
- PASACHOFF, J. M. and D. A. LANDMAN / High-Frequency Coronal Oscillations and Coronal Heating **90**, 325
- PASACHOFF, Jay M. and Joseph I. SILK / The Interpretation of the Absorption-Line Red-Shifts in the Solar Spectrum **4**, 474 (*Research Note*)
- PASACHOFF, J. M. and H. ZIRIN / On K-Line Central Reversals **18**, 27 (*Research Note*)
- PASACHOFF, Jay M., Robert W. NOYES and Jacques M. BECKERS / Spectral Observations of Spicules at Two Heights in the Solar Chromosphere **5**, 131
- PASACHOFF, J. M., E. J. PILDER, and S. R. PLATT / On the Balmer : Paschen Ratio in Prominences **89**, 31 (*Research Note*)
- PASACHOFF, J. M., *see* Canfield, R. C. *et al.*
- PASACHOFF, J. M., *see* Demianski, M.
- PASACHOFF, J. M., *see* Kuiper, T. B. H.
- PASTIELS, R., *see* Thuillier, G. *et al.*
- PATCHETT, B. E., *see* Antonucci, E. *et al.*
- PATERNÓ, L., *see* Belvedere, G.
- PATERNÓ, L., *see* Belvedere, G. *et al.*
- PATERNÓ, L., *see* Belvedere, G. *et al.*
- PATERNÓ, L., *see* Belvedere, G. *et al.*
- PATHAK, P. N. / Correlation of Solar Wind Velocity with λ 5303 Coronal Intensity **20**, 462
- PATHAK, P. N. / Solar Cycle Variation and N-S Asymmetry of λ 5303 Coronal Intensity **25**, 489
- PATRIARCHI, P., *see* Avignon, Y. *et al.*
- PATRIARCHI, P., *see* Drago, F. C.
- PATRICK, T. J., *see* Acton, L. W. *et al.*
- PATTERSON, A., *see* Zirin, H. *et al.*
- PATTERSON, N. P., *see* Brueckner, G. E. *et al.*
- PAYTEN, W. J., *see* Sheridan, K. V. *et al.*
- PEACOCK, N. J., *see* Connerade, J. P. *et al.*
- PEARCE, J. B., *see* Boisshot, A. *et al.*
- PECANTET, P., *see* Leblanc, Y. *et al.*
- PECH, B., *see* Rozelot, J. P. *et al.*
- PECKER, J.-C. / Some Considerations from the Direct Comparison between the Observations and the Theory of Solar Disk Polarization **15**, 88
- PECKER, J.-C., *see* Dumont, S. *et al.*
- PECKER, J.-C., *see* Dumont, S. *et al.*
- PECKER, J. C., *see* Fang, C. *et al.*
- PELLERIN, C. J., JR. / Heavy Solar Cosmic Rays in the January 25, 1971 Solar Flare **41**, 449

- PELLERIN, C. J., *see* Bertsch, D. L. *et al.*
- PERAIAH, A. / Temperature Difference between Pole and Equator of the Sun **30**, 29 (*Research Note*)
- PERDANG, J. / Kolmogorov Unstable Stellar Oscillations **82**, 297
- PERES, G., *see* Pallavacini, R.
- PÉREZ-ENRÍQUEZ, R. / On the Role of Energetic Particles in Solar Flares **97**, 131
- PEREZ-PERAZA, J., *see* Heristchi, Dj. *et al.*
- PEROTTI, F., *see* Cherki, G. *et al.*
- PEROTTI, F., *see* Dilworth, C. *et al.*
- PERREAULT, P. D., *see* Akasofu, S.-I.
- PERRENOUD, M. R. / The Computer-Controlled Solar Radio Spectrometer 'Ikarus' **81**, 197 (*Report from a Solar Institute*)
- PERRENOUD, M., *see* Barrow, C. H. *et al.*
- PERRY, R. M. and M. D. ALTSCHULER / Improved Three-Dimensional Mapping of the Electron Density Distribution of the Solar Corona **28**, 435
- PERRY, R. M., *see* Altschuler, M. D.
- PERSI, P. / A New Method for the Analysis of the Solar Photospheric Spectrum. The Rotational Temperature of the C_2 Molecule **43**, 39
- PETERSEN, P., *see* Andersen, T. *et al.*
- PETERSON, L. E., *see* Datlowe, D. W. *et al.*
- PETERSON, Laurence E., *see* Hudson, Hugh S.
- PETERSON, L. E., *see* McKenzie, D. L. *et al.*
- PETFORD, A. D., D. E. BLACKWELL, B. S. COLLINS, P. A. IBBETSON, E. A. MALLIA, G. SMITH, and D. EMERSON / The Use of Echelle Gratings in Single-Pass Spectrometers **19**, 264
- PETFORD, A. D., *see* Blackwell, D. E. *et al.*
- PETFORD, A. D., *see* Mallia, E. A. *et al.*
- PETKOV, A. P., *see* Andersen, T. *et al.*
- PETRASSO, R. D. and A. S. KRIEGER / The Location of the Site of Energy Release in an X-Ray Flare-Like Brightening **47**, 167 (*extended abstract*)
- PETRASSO, R. D., J. T. NOLTE, M. GERASSIMENKO, A. S. KRIEGER, R. KROGSTAD, F. H. SEGUIN, and Z. ŠVESTKA / Study of the Post-Flare Loops on 29 July 1973. II. Physical Parameters in the X-Ray Loops **62**, 133
- PETRASSO, R. D., *see* Gerassimenko, M. *et al.*
- PETRASSO, R. D., *see* Kahler, S. W. *et al.*
- PETRASSO, R. D., *see* Nolte, J. T. *et al.*
- PETRASSO, R. D., *see* Švestka, Z. *et al.*
- PETRO, L. D., P. V. FOUKAL, and R. L. KURUCZ / Photospheric Limb-Darkening Signatures of Global Structure Variations **98**, 23
- PETROPOULOS, B., *see* Xanthakis, J. *et al.*
- PETROSIAN, V. and J. LEACH / Correlation of Hard X-Ray and Type III Bursts in Solar Flares **87**,

- PETROSIAN, V., *see* Leach, J. *et al.*
- PETROU, D., *see* Heristchi, Dj. *et al.*
- PETTINI, G., *see* Calamai, G. *et al.*
- PEYTREMANN, E., *see* Müller, E. A. *et al.*
- PFLUG, K., *see* Bachmann, G. *et al.*
- PHILLIPS, K. J. H. and J. L. CULHANE / A Comment on Solar Flare Iron Line Emission at 1.7 Å **16**, 469 (*Research Note*)
- PHILLIPS, K. J. H. and W. M. NEUPERT / $K\alpha$ Line Emission during Solar X-Ray Bursts **32**, 209
- PHILLIPS, K. J. H., W. M. NEUPERT, and R. J. THOMAS / Ionization Equilibrium in Soft X-Ray-Emitting Solar Flares **36**, 383
- PHILLIPS, K. J. H. and J. B. ZIRKER / A Model for X-Ray Emission from Loop Prominences **53**, 411
- PHILLIPS, K. J. H., *see* Acton, L. W. *et al.*
- PHILLIPS, K. J. H., *see* Chung-Chieh Cheng *et al.*
- PHILLIPS, K. J. H., *see* Culhane, J. L.
- PHILLIPS, K. J. H., *see* Culhane, J. L. *et al.*
- PHILLIPS, K. J. H., *see* Harrison, R. A. *et al.*
- PHILLIS, G. L. / $H\alpha$ Oscillations in Sunspot Umbrae **41**, 71
- PHILLIS, G. L., *see* Cram, L. E. *et al.*
- PHIPPS, J., *see* Gotwols, B. L.
- PHISSAMAY, B., *see* Vidal-Madjar, A.
- PIAZZA, L. R., *see* Kaufmann, P.
- PICAT, J. P., *see* Crifo, F. *et al.*
- PICAT, J.-P., *see* MacQueen, R. M. *et al.*
- PICK, M. / Relationship between Type III and Microwave Radio Bursts and the Role of Magnetic Configuration **53**, 241
- PICK, M. and G. TROTET / Radioheliograph Observations of a Pulsating Structure Associated with a Moving Type IV Burst **60**, 353
- PICK, M., M. J. MARTRES, F. AXISA, and C. MERCIER / Discussion on the Coronal Structure Related to Type III Bursts **42**, 461
- PICK, M., G. TROTET, and R. M. MACQUEEN / Skylab Observations of the Coronal Structure Overlying a Type III Producing Active Region **63**, 369
- PICK, M., *see* Axisa, F. *et al.*
- PICK, M., *see* Axisa, F. *et al.*
- PICK, M., *see* Benz, A. O. *et al.*
- PICK, M., *see* Caroubalos, C. *et al.*
- PICK, M., *see* Kane, S. R.
- PICK, M., *see* Kane, S. R. *et al.*
- PICK, M., *see* Klein, L. *et al.*
- PICK, M., *see* Martres, M. *et al.*
- PICK, M., *see* Švestka, Z. *et al.*
- PIDDINGTON, J. H. / Large-Scale Motions in the Sun **21**, 4
- PIDDINGTON, J. H. / Solar Dynamo Theory and the Models of Babcock and Leighton **22**, 3

- PIDDINGTON, J. H. / A Model of the Quiet Solar Atmosphere **27**, 402
- PIDDINGTON, J. H. / A Model of Solar Flares and Faculae **31**, 229
- PIDDINGTON, J. H. / Solar Atmospheric Heating **33**, 363
- PIDDINGTON, J. H. / The Alfvén-Wave Theory of Solar Flares **38**, 465
- PIERCE, A. K. / The Solar Program of the Kitt Peak National Observatory **6**, 498 (*Report from Solar Institute*)
- PIERCE, A. K. / Fraunhofer Line Profiles **90**, 195 (*Research Note*)
- PIERCE, A. K. and C. D. SLAUGHTER / Solar Limb Darkening. I: $\lambda\lambda$ (3033–7297) **51**, 25
- PIERCE, A. K. and J. C. LOPRESTO / Solar Rotation from a Number of Fraunhofer Lines **93**, 155
- PIERCE, A. K., C. D. SLAUGHTER, and D. WEINBERGER / Solar Limb Darkening in the Interval 7404–24018 Å, II **52**, 179
- PIERCE, A. K., *see* Brault, J. W. *et al.*
- PIKEL'NER, S. B. / Origin of Quiescent Prominences **17**, 44
- PIKEL'NER, S. B. / Nature of the Fine Structure of the Middle Chromosphere **20**, 286
- PIKUZ, S. A., *see* Aglizki, E. V. *et al.*
- PILDER, E. J., *see* Pasachoff, J. M. *et al.*
- PINKAU, K., *see* Forrest, D. J. *et al.*
- PINTÉR, Štefan / Longitudinal Distribution of X-Bremsstrahlung on the Solar Disc **8**, 142
- PINTÉR, Š. / Homology of X-Ray Bursts **8**, 149 (*Research Note*)
- PINTER, S. / The Solar Wind Velocity in the Eleven-Year Cycle No. 20 and the Solar Radar Cross-Section **35**, 225
- PIRRONELLO, V., *see* Serio, S. *et al.*
- PISSARENKO, N. F., *see* Kurt, V. G. *et al.*
- PIZZICHINI, G., A. SPIZZICHINO, and G. R. VESPIGNANI / On Anisotropy of Solar Hard X-Ray Emission **35**, 431
- PLATOV, YU. V. / Dynamics and Localization of Surges in the Chromosphere **28**, 477
- PLATOV, J. V. and N. S. SHILOVA / Oscillations of Visible Chromosphere Boundary and Regularity in Position of Spicule Groups along the Limb **19**, 52
- PLATOV, YU. V., B. V. SOMOV, and S. I. SYROVATSKII / Possible Mechanism of Surge Formation in the Solar Atmosphere **30**, 139
- PLATOV, YU. V., *see* Ivanov, L. N.
- PLATOVA, A. G., *see* Nikolsky, G. M.
- PLATT, S. R., *see* Pasachoff, J. M. *et al.*
- PLOCINIENIAK, S. and B. ROMPOLT / Positions of Filament Feet in Relation to the Supergranular Calcium Network **29**, 399 (*Research Note*)
- PLOCINIENIAK, S., *see* Jakimiec, J. *et al.*
- PNEUMAN, G. W. / Solar Flares as Resulting from the Temporary Interruption of Energy Flow to the Corona: a Case of Hydromagnetic Resonance **2**, 462
- PNEUMAN, G. W. / Some General Properties of Helmeted Coronal Structures **3**, 578
- PNEUMAN, G. W. / Coronal Streamers. II: Open Streamer Configurations **6**, 255
- PNEUMAN, G. W. / The Rotation of Magnetic Loop Systems in the Solar Atmosphere **19**, 16
- PNEUMAN, G. W. / On Neutral Sheets in the Solar Wind **23**, 223
- PNEUMAN, G. W. / The Solar Wind and the Temperature-Density Structure of the Solar Corona **28**, 247
- PNEUMAN, G. W. / Eruptive Prominences and Coronal Transients **65**, 369
- PNEUMAN, G. W. / The Formation of Solar Prominences by Magnetic Reconnection and Condensation **88**, 219
- PNEUMAN, G. W. / Evolution of Rising Helical Prominences in a Nonuniform Atmosphere **94**, 299
- PNEUMAN, G. W. / The 'Melon-Seed' Mechanism and Coronal Transients **94**, 387
- PNEUMAN, G. W. and R. A. KOPP / Coronal Streamers. III: Energy Transport in Streamers and Interstreamer Regions **13**, 176
- PNEUMANN, G. W. and R. A. KOPP / Gas-Magnetic Field Interactions in the Solar Corona **18**, 258
- PNEUMAN, G. W. and R. A. KOPP / Downflow in the Supergranulation Network and its Implications for Transition Region Models **57**, 49
- PNEUMAN, G. W., S. F. HANSEN, and R. T. HANSEN / On the Reality of Potential Magnetic Fields in the Solar Corona **59**, 313
- PNEUMAN, G. W., *see* Adams, J.
- PNEUMAN, G. W., *see* Anzer, U.
- PNEUMAN, G. W., *see* Durney, B. R.
- PNEUMAN, G. W., *see* Kopp, R. A.
- PNEUMAN, G. W., *see* Priest, E. R.
- PNEUMAN, G. W., *see* Smith, D. F.
- PNEUMAN, G. W., *see* Yeh, T.
- POLAND, A. I. / Motions and Mass Changes of a Persistent Coronal Streamer **57**, 141
- POLAND, A. and U. ANZER / Energy Balance in Cool Quiescent Prominences **19**, 401
- POLAND, A. I. and R. M. MACQUEEN / The Evolution of a Coronal Streamer and the Photospheric Magnetic Field **71**, 361
- POLAND, A. I. and E. TANDBERG-HANSEN / Physical Conditions in a Quiescent Prominence Derived from UV Spectra Obtained with the

- UVSP Instrument on the SMM **84**, 63
- POLAND, A. I., R. A. HOWARD, M. J. KOOMEN, D. J. MICHELS, and N. R. SHEELEY, JR. / Coronal Transients near Sunspot Maximum **69**, 169
- POLAND, A. I., M. E. MACHADO, C. J. WOLFSON, K. J. FROST, B. E. WOODGATE, R. A. SHINE, P. J. KENNY, C. C. CHENG, E. A. TANDBERG-HANSEN, E. C. BRUNER, and W. HENZE / The Impulsive and Gradual Phases of a Solar Limb Flare as Observed from the Solar Maximum Mission Satellite **78**, 201
- POLAND, A., A. SKUMANICH, R. G. ATHAY, and E. TANDBERG-HANSEN / Hydrogen Ionisation and $n = 2$ Population for Model Spicules and Prominences **18**, 391
- POLAND, A. I., *see* Anzer, U.
- POLAND, A. I., *see* Doyle, J. G. *et al.*
- POLAND, A. I., *see* Gosling, J. T. *et al.*
- POLAND, A. I., *see* Gosling, J. T. *et al.*
- POLAND, A. I., *see* Hildner, E. *et al.*
- POLAND, A. I., *see* MacQueen, R. M.
- POLAND, A. I., *see* Mariska, J. T.
- POLAND, A. I., *see* Munro, R. H. *et al.*
- POLAND, A. I., *see* Saito, K. *et al.*
- POLAND, A. I., *see* Strong, K. T. *et al.*
- POLAND, A. I., *see* Wu, S. T. *et al.*
- POLETO, G. / Brightness Fluctuations of Solar Ultraviolet Line Intensities during a Shock-Wave Passage **61**, 389
- POLETO, G. / Common Origin for UV and Radio Fluctuations? **66**, 323
- POLETO, G. / Mass Motions in the Transition Region **73**, 233
- POLETO, G., G. S. VAIANA, M. V. ZOMBECK, A. S. KRIEGER, and A. F. TIMOTHY / A Comparison of Coronal X-Ray Structures of Active Regions with Magnetic Fields Computed from Photospheric Observations **44**, 83
- POLETO, G., *see* Cantù, A. M. *et al.*
- POLETO, G., *see* Felli, M. *et al.*
- POLETO, G., *see* Godoli, G.
- POLETO, G., *see* Kopp, R. A.
- POLETO, G., *see* Kopp, R. A. *et al.*
- POLETO, G., *see* Landini, M.
- POLETO, G., *see* Landini, M. *et al.*
- POLETO, G., *see* Monsignori Fossi, B. C.
- POLETO, G., *see* Švestka, Z.
- POLYAKOV, V. I., *see* Merkulenko, V. E. *et al.*
- POMERANTZ, M. A., *see* Baird, G. A.
- POMERANTZ, M. A., *see* Duggal, S. P.
- POMERANTZ, M. A., *see* Duggal, S. P. *et al.*
- POMERANTZ, M. A., *see* Forbush, S. E. *et al.*
- POMERANTZ, M. A., *see* Grec, G. *et al.*
- POMERANTZ, M., *see* Fossat, E. *et al.*
- PONYAVIN, D. I., *see* Pudovkin, M. I. *et al.*
- PONZ, J. D., *see* Bonet, J. A. *et al.*
- POPE, Thomas / Improvement of Coronal Emission Line Photographs **8**, 88 (*Research Note*)
- POPE, T. and J. MOSHER / Evidence for Northward Radial Fields in the Sun's Photosphere and Possible Explanation of the Polar Magnetic Signal **44**, 3
- POPE, T. and S. A. SCHOOLMAN / Height of Helium Emission in the Chromosphere **42**, 47
- POPE, T., *see* Vorpahl, J. POUNDS, K. A., *see* Parkinson, J. H. POUNDS, K. A., *see* Batstone, R. M. *et al.*
- POPE, T. P., *see* Mosher, J. M.
- POPE, T., *see* Fisher, R.
- POPOVICI, C. / Bucharest Observatory Solar Station **9**, 494 (*Report from Solar Institute*)
- POQUÉRUSSE, M., *see* Steinberg, J. L. *et al.*
- POSS, H. L., *see* Rosen, W. A.
- POTTASCH, S. R., *see* De Boer, K. S.
- POTTASCH, S. R., *see* Jordan, Carole
- POTTER, W. H., *see* Alvarez, H. *et al.*
- POTTER, W. H., *see* Fitzenreiter, R. J. *et al.*
- POULAIN, P. / Observations Coronographiques avant et après les éclipses du 10 Juillet 1972 et du 30 Juin 1973 **36**, 339 (*Research Note*)
- POULAIN, P. / Numerical Simulation of the K Corona and of the $\lambda 5303$ Emission Line Corona **70**, 229
- POULAIN, P., *see* Leroy, J. L. *et al.*
- POULAKOS, C., *see* Xanthakis, J.
- POULSEN, O., *see* Andersen, T. *et al.*
- POUMEYROL, F., *see* Bocchia, R.
- POWELL, R. J., *see* Croom, D. L.
- POWELL, R. J., *see* Croom, D. L. *et al.*
- POYET, J.-P. / Derivation of the Amplitude Equations of Acoustic Modes of an Unstable Semi-Infinite Polytrope **82**, 267 (*Invited Review*)
- PRABHAKARAN NAYAR, S. R., *see* Revathy, P.
- PRA BHU, T. P., *see* Singh, J.
- PRADERIE, F. and R. N. THOMAS / Radiation Losses and Mechanical Heating in the Low Solar Chromosphere **50**, 333
- PRATA, S. W. / A Series of Related Active Regions during January 14–June 1, 1969 **19**, 92
- PRATA, S. W. / A Note on the Chromospheric Fine Structure at Active Region Polarity Boundaries **20**, 310
- PRATA, S. W. / Some Aspects of Flare Properties Versus Magnetic Boundary Morphology **25**, 136
- PRATA, S. W. / Lifetimes of Enhanced Chromospheric Network Features near Active Regions **33**, 119
- PRAVDJUK, L. M., *see* Krat, V. A.
- PRAVDJUK, L. M., *see* Krat, V. A. *et al.*

- PRICE, P. N., *see* Wiehl, H. J. *et al.*
- PRIESE, J. / Absolute Calibration Method and Technique of the Daily Patrol of the Solar Flux Density at 1470 MHz **9**, 235
- PRIEST, E. R. / Current Sheet Models of Solar Flares **47**, 41 (*Invited Review*)
- PRIEST, E. R. / The Structure of Coronal Loops **58**, 57
- PRIEST, E. R. / Magnetic Theories of Solar Flares **86**, 33
- PRIEST, E. R. and J. HEYVAERTS / A Clue to the Trigger for Both the Type III Solar Radioburst and the Solar Flare **36**, 433
- PRIEST, E. R. and A. M. MILNE / Force-Free Magnetic Arcades Relevant to Two-Ribbon Solar Flares **65**, 315
- PRIEST, E. R. and G. W. PNEUMAN / The Influence of Non-Uniform Solar Wind Expansion on the Angular Momentum Loss from the Sun **34**, 231
- PRIEST, E. R. and M. A. RAADU / Preflare Current Sheets in the Solar Atmosphere **43**, 177
- PRIEST, E. R. and E. A. SMITH / The Structure of Coronal Arcades and the Formation of Solar Prominences **64**, 267
- PRIEST, E. R., *see* Altschuler, M. D. *et al.*
- PRIEST, E., *see* Anzer, U.
- PRIEST, E. R., *see* Browning, P. K.
- PRIEST, E. R., *see* Cargill, P. J.
- PRIEST, E. R., *see* Cargill, P. J.
- PRIEST, E. R., *see* Forbes, T. G.
- PRIEST, E. R., *see* Forbes, T. G.
- PRIEST, E. R., *see* Forbes, T. G.
- PRIEST, E. R., *see* Forbes, T. G.
- PRIEST, E. R., *see* Heyvaerts, J. *et al.*
- PRIEST, E. R., *see* Hood, A. W.
- PRIEST, E. R., *see* Hood, A. W.
- PRIEST, E. R., *see* Hood, A. W.
- PRIEST, E. R., *see* Melville, J. P. *et al.*
- PRIEST, E. R., *see* Melville, J. P. *et al.*
- PRIEST, E. R., *see* Milne, A. M.
- PRIEST, E. R., *see* Smith, E. A.
- PRIEST, E. R. (ed.), *see* Sturrock, P. A. *et al.* (eds.)
- PRIEST, E. R., *see* Tur, T. J.
- PRIEST, E. R., *see* Wragg, M. A.
- PRIEST, E. R., *see* Wragg, M. A.
- PRIEST, E. R., *see* Wragg, M. A.
- PRIMBSCH, J. H., *see* Kahler, S. W.
- PRINZ, D. K. / High Spatial Resolution Photographs of the Sun in L α Radiation **28**, 35
- PRINZ, D. K., *see* Vanhoosier, M. E. *et al.*
- PROKAKIS, T. / The Depth of Sunspots **35**, 105
- PROKAKIS, TH. and D. DIALETIS / Zenith Photoelectric Measurements during the Annular Solar Eclipse of April 29, 1976 **53**, 531
- PROKOF'eva, N. A., *see* Kobrin, M. M. *et al.*
- PROKOF'EV, V. K., *see* Stenflo, J. O. *et al.*
- PROVOST, J. / Note on the Response of an Atmosphere to a Localized Turbulent Source **33**, 103 (*Research Note*)
- PROVOST, J. / Response of a Bounded Atmosphere to a Non-Resonant Excitation. I: Isothermal Case **40**, 257
- PROVOST, J. and N. MEIN / Wave Reflections in the Solar Atmosphere **64**, 43
- PRUSS, G., *see* Zirin, H. *et al.*
- PSUJEK, C. J. and R. G. TESKE / Core Electron Densities of Coronal Polar Plumes **27**, 420
- PUCHENKINA, S. P., *see* Pudovkin, M. I. *et al.*
- PUDOVKIN, M. I. and E. E. BENEVOLENSKA / The Internal Magnetic Field of the Sun and Peculiarities of the Solar Activity Cycles **95**, 381
- PUDOVKIN, M. I. and A. D. CHERTKOV / Magnetic Field of the Solar Wind **50**, 213
- PUDOVKIN, M. I., S. A. ZAITSEVA, and S. P. PUCHENKINA / Dependence of the Flare Stream Velocity on Magnetic Field Orientation **95**, 371
- PUDOVKIN, M. I., S. A. ZAITSEVA, I. P. OLEFERENKO, and A. D. CHERTKOV / The Structure of the Solar Flare Stream Magnetic Field **54**, 155
- PUDOVKIN, M. I., D. I. PONYAVIN, and A. D. CHERTKOV / Recurrency and the Origin of the Vertical Component of the Interplanetary Magnetic Field **66**, 411
- PUNETHA, L. M., *see* Joshi, G. C. *et al.*
- PUNETHA, L. M., *see* Joshi, G. C. *et al.*
- PURCELL, J. D., *see* Sheeley, Jr., N. R. *et al.*
- PURCELL, J. D., *see* Sheeley, N. R. *et al.*
- PURCELL, J. D., *see* Simon, G. W. *et al.*
- PURCELL, J. D., *see* Tousey, R. *et al.*
- PURCELL, J. D., *see* Widing, K. G. *et al.*
- PYE, J. P., *see* Evans, K. D. *et al.*
- PYE, J. P., *see* Hutcheon, R. J. *et al.*
- PYE, J. P., *see* Levine, R. H.
- QAIYUM, A., *see* Alam, B. *et al.*
- QING, L. X., Z. ZHANG, and Z. YOUYI / A Heating Model for the Transition Zone and Inner Corona **91**, 289
- QING-RUI, S. / Flare Build-up in Preflare Magnetic Loops and Nonlinear Force-Free Magnetic Fields **75**, 229
- QUAY, P. D., *see* Stuiver, M.
- QUENBY, J. J., *see* Dyer, C. S. *et al.*
- QUENBY, J. J., *see* Valdés Galici, J. F. *et al.*
- QUENBY, J. J., *see* Webb, S.
- QUENBY, J. J., *see* Webb, S. *et al.*
- QUERFELD, C. W. and R. N. SMARTT / Comparison of Coronal Emission-Line Structure and Polarization **91**, 299
- QUERFELD, C. W., R. N. SMARTT, V. BOMMIER, E.

- LANDI DEGL'INNOCENTI, and LEWIS L. HOUSE / Vector Magnetic Fields in Prominences. II: He I D₃ Stokes Profiles Analysis for Two Quiescent Prominences **96**, 277
- QUERFELD, C. W., *see* Athay, R. G. *et al.*
- QUERFELD, C. W., *see* Baur, T. G. *et al.*
- RAADU, M. A. / Suppression of the Kink Instability for Magnetic Flux Ropes in the Chromosphere **22**, 425
- RAADU, M. A. / Differential Rotation and the Structure and Energy Content of Coronal Magnetic Fields **22**, 443
- RAADU, M. A. and M. KUPERUS / Thermal Instability of Coronal Neutral Sheets and the Formation of Quiescent Prominences **28**, 77
- RAADU, M. A. and Y. NAKAGAWA / The Topology of Force-Free Magnetic Field near Bipolar Sunspots **20**, 64
- RAADU, M. A., *see* Nakagawa, Y.
- RAADU, M. A., *see* Nakagawa, Y. *et al.*
- RAADU, M. A., *see* Nakagawa, Y. *et al.*
- RAADU, M. A., *see* Priest, E. R.
- RABIN, D., *see* deLoach, A. C. *et al.*
- RADHAKRISHNAN, B., *see* Biswas, S.
- RADIOHELIOGRAPH GROUP, THE / The Mark II Nançay Radioheliograph **55**, 251
- Radio Observations **31**, 501
- RAE, I. C. and B. ROBERTS / Wave Diagrams for MHD Modes in a Magnetically Structured Atmosphere **84**, 99
- RAFFAELLI, J. C., *see* Kaufmann, P. *et al.*
- RAGHAVAN, N. / Medium Resolution EUV Observations and Network Structure **54**, 363
- RAGHAVAN, N. / A Quantitative Study of Ca II Network Geometry **89**, 35
- RAGHAVAN, N. and G. L. WITHBROE / EUV Analysis of an Active Region **43**, 117
- RAHE, J., *see* Burlaga, L. F. *et al.*
- RAJU, P. K. and B. N. DWIVEDI / Density Dependence of Solar Emission Lines of Oxygen-Like Ions **60**, 269
- RAJU, P. K., *see* Dwivedi, B. N.
- RAJU, P. K., *see* Elwert, G.
- RAMANUJA, M. N., *see* Sastry, Ch. V. *et al.*
- RAMANUJAM, P. S., *see* Andersen, T. *et al.*
- RAMATY, Reuven and Richard E. LINGENFELTER / Determination of the Coronal Magnetic Field and the Radio-Emitting Electron Energy from a Type IV Solar Radio Burst **5**, 531
- RAMATY, R., R. J. MURPHY, B. KOZLOVSKY, and R. E. LINGENFELTER / Gamma-Ray Lines and Neutrons from Solar Flares **86**, 395
- RAMATY, R., *see* Bai, T.
- RAMATY, Reuven, *see* Holt, Stephen S.
- RAMATY, R., *see* Wang, H. T.
- RAMESH, K. B., *see* Sastri, J. H. *et al.*
- RAMSAY, J. V., D. G. NORTON, and E. G. V. MUGRIDGE / The Testing and Adjustment of Lyot-Öhman Filters **4**, 476 (*Research Note*)
- RAMSAY, J. V., H. KOBLER, and E. G. V. MUGRIDGE / A New Tunable Filter with a Very Narrow Pass-Band **12**, 492
- RAMSEY, Harry E., *see* Smith, Sara F.
- RAMSEY, H. E. / Use of a Birefringent Element to Separate Magnetic Polarity **21**, 54 (*Research Note*)
- RAMSEY, H. E., *see* Martin, S. F. *et al.*
- RAMSEY, H. E., *see* Schoolman, S. A.
- RAMSEY, L. W. / High Dispersion Spectroscopy of Quiescent Prominences. II: Vertical Structure of the Line-of-Sight Velocity Field **51**, 307
- RAMSEY, L. W. and H. R. JOHNSON / A Method for Empirical Determination of Stellar Atmospheric Structure **45**, 3
- RAMSEY, L., *see* Livingston, W.
- RANGARAJAN, G. K., *see* Bhargava, B. N.
- RANIERI, M., *see* Dennis, B. R. *et al.*
- RAO, A. P. and M. R. KUNDU / A Study of Filament Transition Sheath from Radio Observations **55**, 161
- RAO, A. P. and M. R. KUNDU / Fine Structure and Time Variation of the Quiet Sun at 1.3 cm **59**, 345
- RAO, J. V. S. V., *see* Sastri, J. H. *et al.*
- RAO, K. R. / Short Periodicities in Solar Activity **29**, 47
- RAO, K. R., I. M. MARTIN, J. O. D. JARDIM, and U. B. JAYANTHI / 2.2 MeV Gamma-Ray Line Observed during Two SN Solar Flares **79**, 121
- RAOULT, A., P. LANTOS, and E. FÜRST / Prominences at Centimetric and Millimetric Wavelengths. I: Size and Spectrum of the Radio Filaments **61**, 335
- RAOULT, A., *see* Benz, A. O. *et al.*
- RAOULT, A., *see* Lantos, P.
- RAOULT, A., *see* Švestka, Z. *et al.*
- RAOULT, A., *see* Švestka, Z. *et al.*
- RAO, U. R., K. G. MCCracken, F. R. ALLUM, R. A. R. PALMEIRA, W. C. BARTLEY, and I. PALMER / Anisotropy Characteristics of Low Energy Cosmic Ray Population of Solar Origin **19**, 209
- RAO, U. R., *see* Allum, F. R. *et al.*
- RAO, U. R., *see* Allum, F. R. *et al.*
- RAO, U. R., *see* Bartley, W. C. *et al.*
- RAO, U. R., *see* Bukata, R. P.
- RAO, U. R., *see* Bukata, R. P. *et al.*
- RAO, U. R., *see* Keath, E. P. *et al.*
- RAO, U. R., *see* McCracken, K. G. *et al.*
- RAO, U. R., *see* Palmeira, R. A. R. *et al.*

- RAO, U. V. Gopala / Directivity of Solar Microwave Bright Regions **4**, 428
- RAPLEY, C. G., *see* Acton, L. W. *et al.*
- RAPLEY, C. G., *see* Antonucci, E. *et al.*
- RAPLEY, C. G., *see* Švestka, Z. *et al.*
- RAPLEY, C. G., *see* Švestka, Z. *et al.*
- RAPOPORT, V. O., *see* Abranin, E. P. *et al.*
- RAPOPORT, V. O., *see* Abranin, E. P. *et al.*
- RAPOPORT, V. O., *see* Abranin, E. P. *et al.*
- RAPOPORT, V. O., *see* Abranin, E. P. *et al.*
- RAPOPORT, V. O., *see* Abranin, E. P. *et al.*
- RAPOPORT, V. O., *see* Abranin, E. P. *et al.*
- RAPOPORT, V. O., *see* Baselyan, L. L. *et al.*
- RAPOPORT, V. O., *see* Levin, B. N.
- RAPOPORT, V. O., *see* Zaitsev, V. V. *et al.*
- RATIER, G. and J.-P. ROZELOT / Sur la détermination du rapport d'intensité des raies infrarouges de l'ion FeXIII **23**, 394
- RATIER, G., *see* Noëns, J. C. *et al.*
- RATIER, G., *see* Rozelot, J. P.
- RATNIKOVA-SHEMINOVA, V. A., *see* Gurtovenko, E. A.
- RATNIKOVA, V. A., *see* Gurtovenko, E. A.
- RATNIKOVA, V., *see* Gurtovenko, E. *et al.*
- RAUSARIA, R. R., *see* Elwert, G.
- RAVIART, A., *see* Cherki, G. *et al.*
- RAVIART, A., *see* Dilworth, C. *et al.*
- RAY, A. and G. VAN HOVEN / Hydromagnetic Stability of Coronal Arcade Structures: the Effects of Photospheric Line Tying **79**, 353
- RAYCHAUDHURI, P. / Solar Neutrino Data and the 11-Year Solar Activity Cycle **93**, 397
- RAYMOND, J. C., R. W. NOYES, and M. P. STOPA / The Balmer 9 and Balmer 11 Lines of HeII in the Sun **61**, 271
- RAYMOND, J. C., *see* Doyle, J. G.
- RAYROLE, J., *see* Martres, M.-J. *et al.*
- RAZAULLAH ANSARI, S. M., *see* Alam, B.
- READ, R. B., *see* Hurford, G. J. *et al.*
- REAMES, D. V., *see* Bertsch, D. L.
- REAMES, D. V., *see* Bertsch, D. L. *et al.*
- REBER, E. E. / Brightness Temperatures of the Quiet Sun and New Moon at the 6 mm Wavelength **16**, 75
- RECELY, F., *see* Harvey, K. L.
- REES, David E. / Line Formation in a Magnetic Field **10**, 268
- REES, D. E. / On the Absorption Matrix in a Non-Uniform Magnetic Field **16**, 67
- REES, D. E., *see* Wilson, P. R. *et al.*
- REEVES, E. M. / The EUV Chromospheric Network in the Quiet Sun **46**, 53
- REEVES, E. M. and W. H. PARKINSON / EUV Observations of the Chromospheric Network **24**, 113
- REEVES, E. M., R. W. NOYES, and G. L. WITHBROE / Observing Programs in Solar Physics during the 1973 ATM Skylab Program **27**, 251
- REEVES, E. M., *see* Parkinson, W. H.
- REEVES, E. M., *see* Schmahl, E. J. *et al.*
- REEVES, E. M., *see* Withbroe, G. L. *et al.*
- REEVES, E. M., *see* Wood, A. T. *et al.*
- REHSE, R., *see* Woodgate, B. E. *et al.*
- REICHMANN, E. J., *see* Henze, W. *et al.*
- REICHMANN, E. J., *see* Krall, K. R. *et al.*
- REICHMANN, E. J., *see* Tandberg-Hanssen, E. *et al.*
- REICHMANN, E., *see* Engvold, O. *et al.*
- REICHMANN, E., *see* Tandberg-Hanssen, E. *et al.*
- REICHMANN, E., *see* Wu, S. T. *et al.*
- REID, John H. / Cape Lyot H α -Heliograph Results. An Analysis of Flare Activity 1958–65 **5**, 207
- REID, John H., *see* Robbins, Donald E.
- REIF, R. J. and S. MUSMAN / Interference in Solar Oscillations **20**, 257
- REILING, H. / A Power Spectrum Analysis of Granular Intensity Fluctuations and Velocities **19**, 297
- REINHARD, R. and G. WIBBERENZ / Propagation of Flare Protons in the Solar Atmosphere **36**, 473
- REISS, G., *see* Durrant, C. J. *et al.*
- REMO, J. L. / Empirical Solar Continuum Models **16**, 288
- REMO, J., *see* Fay, T. *et al.*
- RENSE, W. A., *see* Cushman, G. W.
- RENSE, W. A., *see* Jones, R. A.
- RENSE, W. A., *see* Kelly, P. T.
- REPAPIS, C. C., *see* Papagiannis, M. D. *et al.*
- REPPIN, C., *see* Forrest, D. J. *et al.*
- REPPIN, C., *see* Suri, A. N.
- REVATHY, P. / Coronal Heating by Ion Acoustic Waves **53**, 445 (*Research Note*)
- REVATHY, P. / Heating and Acceleration of α -Particles in the Solar Wind **58**, 397
- REVATHY, P. and G. S. LAKHINA / Solar Wind Heating by Heat Conduction Driven Ion Acoustic Instability **52**, 471
- REVATHY, P. and S. R. PRABHAKARAN NAYAR / Ion Acoustic Instability in the Presence of Plasma Turbulence in the Solar Wind **79**, 187
- REYNOLDS, R., *see* MacQueen, R. M. *et al.*
- REZNIKOV, A. P., *see* Kukushkina, V. P.
- RHODES, E. J., JR., J. W. HARVEY, and T. L. DUVAL, JR. / Recent Observations of High-Degree Solar p -Mode Oscillations at the Kitt Peak National Observatory **82**, 111 (*Invited*)

Review, Abstract)

- RHODES, E. J., JR., R. F. HOWARD, R. K. ULRICH, and E. J. SMITH / A New System for Observing Solar Oscillations at the Mount Wilson Observatory. I: System Design and Installation **82**, 245
- RIANI, I., *see* Chiuderi, C.
- RIBES, E., *see* Unno, W. *et al.*
- RIBKO, L. B., *see* Kurochka, L. N.
- RICE, J. B. and V. GAIZAUSKAS / The Oscillatory Velocity Field Observed in a Unipolar Sunspot Region **32**, 421
- RICH, John C., *see* Gingerich, Owen
- RICHTER, A. K., *see* Scholer, M. *et al.*
- RICHTER, A. K., *see* Schulze, B. M. *et al.*
- RICKETT, B. J. / Disturbances in the Solar Wind from IPS Measurements in August 1972 **43**, 237
- RICORT, G., C. AIME, C. RODDIER, and J. BORGNINO / Determination of Fried's Parameter r_0 Prediction for the Observed r.m.s. Contrast in Solar Granulation **69**, 223
- RICORT, G., J. BORGNINO, and C. AIME / A Comparison between Estimations of Fried's Parameter r_0 Simultaneously Obtained by Measurements of Solar Granulation Contrast and of the Variance of Angle-of-Arrival Fluctuations **75**, 377
- RICORT, G., *see* Aime, C. *et al.*
- RICORT, G., *see* Borgnino, J. *et al.*
- RICORT, G., *see* Fossat, E.
- RIDDLE, A. C. / Height of the Slowly Varying Component of Radio Emission at 9.1 cm during the Quiet Sun Years **6**, 251
- RIDDLE, A. C. / The Quiet and Slowly Varying Components of 9.1 cm Radio Emission during the Solar Minimum **7**, 434
- RIDDLE, A. C. / 80 MHz Observations of a Moving Type IV Solar Burst, March 1, 1969 **13**, 448
- RIDDLE, A. C. / On the Determination of Coronal Temperature from the Decay of Type III Radio Bursts **34**, 181 (*Research Note*)
- RIDDLE, A. C. / On the Observation of Scattered Radio Emission from Sources in the Solar Corona **35**, 153
- RIDDLE, A. C. / The Slowly Varying Component of Solar Meter Wavelength Radiation: a Non-Thermal Radio Source **36**, 375
- RIDDLE, A. C., E. TANDBERG-HANSEN, and R. T. HANSEN / The Coronal Disturbance of 1972, August 12 **35**, 171
- RIDDLE, A. C., *see* Boischot, A. *et al.*
- RIDDLE, A. C., *see* Harvey, K. L. *et al.*
- RIDDLE, A. C., *see* Smith, D. F.
- RIDDLE, A. C., *see* Tandberg-Hanssen, E. *et al.*
- RIDGELEY, A. and W. M. BURTON / Further Observations of the Solar Limb Spectrum in the Region 550–2000 Å **27**, 280
- RIDGELEY, A., *see* Burton, W. M.
- RIEGER, E., *see* Forrest, D. J. *et al.*
- RIESEBIETER, W. and F. M. NEUBAUER / Directional Solution of Laplace's Equation for Coronal Magnetic Fields Using Line-of-Sight Boundary Conditions **63**, 127
- RIGHINI, ALBERTO / Modulation Transfer Function for Solar Telescopes and Atmospheric Turbulence **25**, 242
- RIGHINI, A., *see* Cavallini, F.
- RIGHINI, A., *see* Mazzucconi, F.
- RIGHINI, G. / The Arcetri Astrophysical Observatory **1**, 494 (*Report from Solar Institute*)
- RIGHINI, GUGLIELMO / 'In Memoriam' by I. ROSINO **62**, 3
- RIGHINI, G., *see* Rosino, L.
- RIGUTTI, M., *see* Caccin, B. *et al.*
- RIGUTTI, M., *see* Caccin, B. *et al.*
- RIGUTTI, M., *see* Falciani, R.
- RIGUTTI, M., *see* Falciani, R.
- RIGUTTI, M., *see* Falciani, R. *et al.*
- RIGUTTI, M., *see* Falciani, R. *et al.*
- RINEHART, R., *see* Maxwell, A.
- RIZZO PIAZZA, L., *see* Kaufmann, P. *et al.*
- ROBBINS, Donald E. and John H. REID / Solar Physics at the NASA Manned Spacecraft Center **10**, 502 (*Report from Solar Institute*)
- ROBBINS, D. E., *see* Hirshberg, J. *et al.*
- ROBBINS, M. F., *see* Lanzerotti, L. J.
- ROBB, T. D., *see* Craig, I. J. D. *et al.*
- ROBERTI, G., *see* Azzarelli, L. *et al.*
- ROBERTI, G., *see* Caccin, B. *et al.*
- ROBERTI, G., *see* Falciani, R. *et al.*
- ROBERTI, G., *see* Falciani, R. *et al.*
- ROBERTS, B. / Intense Magnetic Fields and Umbral Dots **50**, 329
- ROBERTS, B. / Spicules: the Resonant Response to Granular Buffeting? **61**, 23
- ROBERTS, B. / Wave Propagation in a Magnetically Structured Atmosphere. II: Waves in a Magnetic Slab **69**, 39
- ROBERTS, B. / Wave Propagation in a Magnetically Structured Atmosphere. I: Surface Waves at a Magnetic Interface **69**, 27
- ROBERTS, B. / Wave Propagation in Intense Flux Tubes **87**, 77
- ROBERTS, B. and S. FRANKENTHAL / The Thermodynamic Statics of Coronal Loops **68**, 103
- ROBERTS, B. and A. R. WEBB / Vertical Motion in an Intense Magnetic Flux Tube **56**, 5
- ROBERTS, B. and A. R. WEBB / Vertical Motion in an Intense Magnetic Flux Tube. III: On the Slender Flux Tube Approximation **64**, 77

- ROBERTS, B., *see* Edwin, P. M.
 ROBERTS, B., *see* Edwin, P. M.
 ROBERTS, B., *see* Rae, I. C.
 ROBERTS, B., *see* Webb, A. R.
 ROBERTS, B., *see* Webb, A. R.
 ROBERTSON, B. J. / Self-Consistent Magneto-hydrodynamic Coronal Hole Flows **83**, 63
 ROBERTSON, M. N., *see* Brown, J. C. *et al.*
 ROBINSON, R. D. / A Study of Type V Solar Radio Bursts. I: Observations **55**, 459
 ROBINSON, R. D. / A Study of Type V Solar Radio Bursts. II: a Theoretical Model **56**, 405
 ROBINSON, R. D. / Observations and Interpretation of Moving Type IV Solar Radio Bursts **60**, 383
 ROBINSON, R. D. / Velocities of Type II Solar Radio Events **95**, 343
 ROBINSON, R. D. and D. C. BOICE / Size Variations in Regular Sunspots **81**, 25
 ROBINSON, R. D. and R. T. STEWART / A Positional Comparison between Coronal Mass Ejection Events and Solar Type II Bursts **97**, 145
 ROBINSON, R. D., R. T. STEWART, and H. V. CANE / Properties of Metre-Wavelength Solar Bursts Associated with Interplanetary Type II Emission **91**, 159
 ROBINSON, R. D., *see* Cram, L. E. *et al.*
 ROBINSON, R. D., *see* Demastus, H. L. *et al.*
 ROBINSON, R. D., *see* Dulk, G. A. *et al.*
 ROCA-CORTES, T., M. VAZQUEZ, and H. WÖHL / Space and Time Variations of K₁ 7699 Solar Line Profile **88**, 1
 ROCA CORTES, T., *see* Claverie, A. *et al.*
 ROCA CORTES, T., *see* Claverie, A. *et al.*
 ROCHESTER, G. K., *see* Eyles, C. J. *et al.*
 ROCHWARGER, I. T., *see* Lemen, J. R. *et al.*
 ROCK, K. A., *see* Fisher, R. R. *et al.*
 RODDIER, C., *see* Ricort, G. *et al.*
 RODDIER, F., *see* Fossat, E.
 RODDIER, F., *see* Gonczl, G.
 ROELOF, E. C., S. CUPERMAN, and A. STERNLIEB / On the Correlation of Coronal Green-Line Intensity and Solar Wind Velocity **41**, 349
 ROELOF, E. C., H. W. DODSON, and E. R. HEDEMAN / Dependence of Radio Emission in Large H α Flares 1967-1970 upon the Orientation of the Local Solar Magnetic Field **85**, 339
 ROELOF, E. C., *see* Gosling, J. T.
 ROELOF, E. C., *see* Krieger, A. S. *et al.*
 ROELOF, E. C., *see* Lin, R. P.
 ROELOF, E. C., *see* Nolte, J. T.
 ROELOF, E. C., *see* Nolte, J. T. *et al.*
 ROELOF, E. C., *see* Nolte, J. T. *et al.*
 ROELOF, E. C., *see* Nolte, J. T. *et al.*
 ROETHIG, D. T., *see* Wolfson, C. J. *et al.*
 ROFE, B., *see* Carver, J. H. *et al.*
 ROGACHEVSKII, I. V., *see* Meerson, B. I.
 ROGERS, E. H. / Lifetime of the H α Chromospheric Network **13**, 57
 ROGERSON, J. E., *see* Davis, J.
 ROGERS, S. R., *see* Baur, T. G. *et al.*
 ROLAND, G., *see* Biémont, E. *et al.*
 ROLLO, M. D., *see* Craig, I. J. D. *et al.*
 ROMANOV, V. A., *see* Denisenko, V. V. *et al.*
 ROMPOLT, B. / Spectral Features to be Expected from Rotational and Expansional Motions in Fine Solar Structures **41**, 329
 ROMPOLT, B., *see* Garczyńska, I. N. *et al.*
 ROMPOLT, B., *see* Plocieniak, S.
 RONAN, R., *see* Habbal, S. R. *et al.*
 RONAN, R., *see* Withbroe, G. L. *et al.*
 ROOSEN, J. / Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. I: The Quiet Component of the 9.1-cm Emission and the 'M-Regions' **7**, 448
 ROOSEN, J. / Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. II: Statistical Properties of the Microwave Emission associated with Sunspots **8**, 204
 ROOSEN, J. / Some Features of the Solar Microwave Emission and Their Connection with Geomagnetic Activity. III: Sunspots and Geomagnetic Activity **8**, 450
 ROOSEN, J. and T. GOH / The Distribution of the 9 cm Radio Emission over the Solar Disk during the Sunspot Minimum **1**, 242
 RÖSCH, / The Distribution of the 9 cm Radio Emission over the Solar Disk during the Sunspot Minimum **1**, 242
 RÖSCH, J. / Lucien d'Azambuja (1884-1970) **15**, 261
 ROSCH, J. / The Basic Equations for Scanning Heliometer Measurement of Solar Diameters **96**, 213
 RÖSCH, J. and R. YERLE / Solar Diameter(s) **82**, 139
 RÖSCH, J., *see* Leroy, J. L.
 RÖSCH, J., *see* Pages, J. P. *et al.*
 ROSENBERG, F. D., *see* Brabban, D. H. *et al.*
 ROSENBERG, H. / A Possibly Direct Measurement of Coronal Magnetic Field Strengths **25**, 188
 ROSENBERG, H. / Type III Solar Radio Bursts and the Fundamental-Harmonic Hypothesis **42**, 247
 ROSENBERG, H. / Type III Solar Radio Bursts and the Fundamental-Harmonic Hypothesis **46**, 541 (*title only*)
 ROSENBERG, H. and G. TARNSTROM / Frequency

- Separation in Structure of Solar Continuum Radio Bursts **24**, 210
- ROSENBERG, H., *see* Caroubalos, C. *et al.*
- ROSENBERG, H., *see* Chiuderi, C. *et al.*
- ROSENBERG, H., *see* Mercier, C.
- ROSENBERG, H. (ed.), *see* Sturrock, P. A. *et al.* (eds.)
- ROSENBERG, H., *see* Weber, W. J.
- ROSENBERG, R. L. / Unified Theory of the Interplanetary Magnetic Field **15**, 72
- ROSENBERG, R. L., *see* Russel, C. T.
- ROSEN, W. A. and H. L. POSS / Solar Limb Brightening at the Extreme Limb from Photoelectric Eclipse Observations **78**, 17
- ROSINO, L. / In Memoriam: Guglielmo Righini (1908-1978) **62**, 3
- ROSSBACH, M., *see* Wiehr, E.
- ROSS, C. L., *see* Gosling, J. T. *et al.*
- ROSS, C. L., *see* Gosling, J. T. *et al.*
- ROSS, C. L., *see* Hildner, E. *et al.*
- ROSS, C. L., *see* Munro, R. H. *et al.*
- ROSS, J. E. and L. H. ALLER / The Solar Abundance of Gold **23**, 13
- ROSS, J. E. and L. H. ALLER / The Solar Abundance of Silver **25**, 30
- ROSS, J. E. and L. H. ALLER / The Solar Abundance of Germanium **35**, 281
- ROSS, J. E. and L. H. ALLER / The Solar Abundance of Beryllium **36**, 11
- ROSS, J. E. and L. H. ALLER / The Solar Abundance of the Thulium **36**, 21 (*Research Note*)
- ROSS, J., *see* Beckman, J. E. *et al.*
- ROSSBACH, M. and E. H. SCHRÖTER / On the Dependence of Sunspot Minimum Intensity on Area **12**, 95
- ROSTÁS, S., *see* Dezső, L. *et al.*
- ROUDIER, TH., *see* Muller, R.
- ROUSSEL-DUPRÉ, D. and R. A. SHINE / Evidence of Redshifts in the Average Solar Line Profiles of CIV and SiIV from OSO-8 Observations **77**, 329
- ROUSSEL-DUPRÉ, R. / Non-Maxwellian Velocity Distribution Functions Associated with Steep Temperature Gradients in the Solar Transition Region. I: Estimate of the Electron Velocity Distribution Functions **68**, 243
- ROUSSEL-DUPRÉ, R. / Non-Maxwellian Velocity Distribution Functions Associated with Steep Temperature Gradients in the Solar Transition Region. II: The Effect of Non-Maxwellian Electron Distribution Functions on Ionization Equilibrium Calculations for Carbon, Nitrogen and Oxygen **68**, 265
- ROUSSEL-DUPRÉ, R., *see* Billings, D. E. *et al.*
- ROUSSEL-DUPRÉ, R., *see* Francis, M. H.
- ROVIRA DE MICELI, M., *see* Dodson, H. W. *et al.*
- ROVIRA, M., *see* Fontenla, J. M.
- ROVIRA, M., *see* Fontenla, J. M.
- ROVIRA, M. G., *see* Machado, M. E. *et al.*
- ROVIRA, M. G., *see* Machado, M. E. *et al.*
- ROWSE, D. P. and I. W. ROXBURGH / Modelling Coronal Magnetic Fields **74**, 165
- ROWSE, D. P. and I. W. ROXBURGH / Solutions to the Two-Fluid Solar Wind Equations: Adiabatic and Conduction Dominated Solutions **74**, 169
- ROWSE, D. P., I. W. ROXBURGH, and S. SCHWARTZ / Microinstabilities and Models of the Solar Wind **74**, 179
- ROXBURGH, I. W. / The Asymptotic Behavior of the Supersonic Solutions of the Two-Fluid Solar Wind Equations **27**, 478 (*Research Note*)
- ROXBURGH, J. W. / A Note on the Solution of the Saturation Flux Limited Solar Wind Equation **35**, 481
- ROXBURGH, I. W. and C. SINGER / On the Effect of Latitude Dependent Base Conditions on the Structure of the Solar Wind **41**, 241
- ROXBURGH, I. W. / Present Problems of the Solar Interior **100**, 21 (*Invited Review*)
- ROXBURGH, I. W. and R. K. TAVAKOL / The Origin of Supergranulation and Giant Cells in the Solar Convective Zone **61**, 247 (*Research Note*)
- ROXBURGH, I. W., *see* Durney, B. R.
- ROXBURGH, I. W., *see* Rowse, D. P.
- ROY, J.-R. / The Magnetic Configuration of the November 18, 1968 Loop Prominence System **26**, 418
- ROY, J.-R. / The Magnetic Properties of Solar Surges **28**, 95
- ROY, J. R. and H. LEPARSKAS / Some Statistical Properties of Ellerman Bombs **30**, 449
- ROY, J.-R. / The Dynamics of Solar Surges **32**, 13
- ROY, J. R. and A. G. MICHALITSANOS / Chromospheric Activity Associated with Moving Photospheric Magnetic Field **35**, 47
- ROY, J.-R. / Observations of a Surge Prominence as a Continuum Event **48**, 149
- ROY, J.-R. / Problems in Relating the Optical and X-Ray Emissions from a Solar Flare **48**, 265
- ROY, J.-R. / The North-South Distribution of Major Solar Flare Events, Sunspot Magnetic Classes and Sunspot Areas (1955-1974) **52**, 5
- ROY, J.-R. / A Comparison of the Optical and Microwave Emissions of Some Major Solar Flares **64**, 143
- ROY, J.-R. and D. W. DATLOWE / X-Ray Bursts from Solar Flares behind the Limb **40**, 165
- ROY, J.-R. and F. TANG / Slow X-Ray Bursts and

- Flares with Filament Disruption **42**, 425
- ROZELOT, J.-P. / Calcul des probabilités de transition pour divers états excités du FeXII **6**, 49
- ROZELOT, J.-P. / Le FeXII dans la couronne d'émission **8**, 91
- ROZELOT, J.-P. / Analyse des renforcements coronaux à travers quelques acquisitions spectroscopiques récentes des émissions monochromatiques du fer ionisé (X à XV) **22**, 88
- ROZELOT, J.-P. / Population théorique des sous niveaux Zeeman relatifs à la raie 5303 Å de FeXIV **41**, 373
- ROZELOT, J.-P. and M. FULCONIS / Trente cinq années de mesures systématiques de l'intensité de la couronne d'émission en dehors des éclipses (Thirty-Five Years of Patrol Measurements of the Intensity of the Solar Corona outside Eclipses) **84**, 77
- ROZELOT, J. P. and M. FULCONIS / Trente cinq années de mesures systématiques de l'intensité de la couronne d'émission (*Addendum*) **88**, 392 (**84**, 77)
- ROZELOT, J.-P. et G. RATIER / Étude de l'éclipse solaire partielle du 25 Février, 1971 au Pic du Midi **40**, 371
- ROZELOT, J.-P., J. C. NOENS, et B. PECH / Tables pour déterminer la concentration d'atomes dans un état donné: ions coronaux intéressants **37**, 173
- ROZELOT, J.-P., *see* Ratier, G.
- RUDERMAN, M. S., *see* Merzljakov, E. G.
- RÜDIGER, G. / Comments on 'Outward Transport on Angular Momentum...' by E. M. Drobyshewski **59**, 237
- RÜDIGER, G. / Two-Dimensional Stochastic Motions and the Problem of Differential Rotation **51**, 257
- RÜDIGER, G., *see* Krause, F.
- RUGGE, H. R. and A. B. C. WALKER, Jr. / Variation of OVII X-Ray Line-Emission from the Solar Corona **15**, 372
- RUGGE, H. R. and A. B. C. WALKER, Jr. / Further Results on OVII X-Ray Coronal Line Emission **18**, 244 (*Research Note*)
- RUHM, H. / Gas-Pressure and Pressure-Stratification in the Sunspot **10**, 104
- RUSCH, W. V. T., *see* Stelzried, C. T. *et al.*
- RUŠIN, V., M. RYBANSKÝ, and L. SCHEIRICH / The Solar Corona 530.3 nm in the 20th Cycle **61**, 301
- RUŠIN, V., *see* Moussas, X. *et al.*
- RUSSELL, C. T. / On the Possibility of Deducing Interplanetary and Solar Parameters from Geomagnetic Records **42**, 259
- RUSSEL, C. T. and R. L. ROSENBERG / On the Limitations of Geomagnetic Measures of Interplanetary Magnetic Polarity **37**, 251
- RUST, D. M. / Flares and Changing Magnetic Fields **25**, 141
- RUST, D. M. / Analysis of the August 7, 1972 White Light Flare: Changes in the Magnetic and Velocity Fields **33**, 205
- RUST, D. M. / An Active Role for Magnetic Fields in Solar Flares **47**, 21 (*Invited Review*)
- RUST, D. M. / Permanent Changes in Filaments near Solar Flares **93**, 73
- RUST, D. M. and V. BAR / Magnetic Fields, Loop Prominences and the Great Flares of August, 1972 **33**, 445
- RUST, D. M. and C. A. BRIDGES III / The Work of the Diode Array: He 10830 Observations of Spicules and Subflares **43**, 129
- RUST, D. M. and F. HEGWER / Analysis of the August 7, 1972 White Light Flare: Light Curves and Correlation with Hard X-Rays **40**, 141
- RUST, D. M. and E. HILDNER / Expansion of an X-Ray Coronal Arch into the Outer Corona **48**, 381
- RUST, D. M. and B. V. SOMOV / Flare Loops Heated by Thermal Conduction **93**, 95
- RUST, D. M. and Z. ŠVESTKA / Slowly Moving Disturbances in the X-Ray Corona **63**, 279
- RUST, D. M. and D. F. WEBB / Soft X-Ray Observations of Large-Scale Coronal Active Region Brightenings **54**, 403
- RUST, D. M., Y. NAKAGAWA, and W. M. NEUPERT / EUV Emission, Filament Activation and Magnetic Fields in a Slow-Rise Flare **41**, 397
- RUST, D. M., D. F. WEBB, and W. MACCOMBIE / Do Surges Heat the Corona? **54**, 53 (*Research Note*)
- RUST, D. M., *see* Boyer, R. *et al.*
- RUST, D. M., *see* De Jager, C. *et al.*
- RUST, D. M., *see* Heyvaerts, J. *et al.*
- RUST, D. M., *see* MacCombie, W. J.
- RUST, D. M., *see* Machado, M. E.
- RUST, D. M., *see* MacNeice, P. *et al.*
- RUST, D. M., *see* Musman, S.
- RUST, D. M., *see* Neupert, W. M. *et al.*
- RUST, D. M., *see* Webb, D. F. *et al.*
- RUSSO, D., *see* Landini, M. *et al.*
- RUSTAD, B. M., *see* Engvold, O.
- RUSTAD, B. M., *see* Engvold, O. *et al.*
- RUTTEN, R. J. / The Solar Temperature Distribution with Latitude **28**, 347 (*Research Note*)
- RUTTEN, R. J. / Extreme Limb Observations of BaII $\lambda\lambda 554$ and MgI $\lambda\lambda 571$ **51**, 3
- RUTTEN, R. J. / Empirical NLTE Analyses of Solar Spectral Lines. II: The Formation of the BaII

- 44554 Resonance Line **56**, 237
- RUTTEN, R. J., P. HOYNG, and C. DE JAGER / On the Determination of the Photospheric Velocity Distribution from Profiles of Weak Fraunhofer Lines **38**, 321
- RUTTEN, R. J., *see* Houtgast, J. *et al.*
- RŮŽIČKOVÁ-TOPOLOVÁ, B., *see* Bumba, VRUZMAIKIN, A. A. / The Solar Dynamo **100**, 125 (*Invited Review*)
- RYAN, J. M., *see* Forrest, D. J. *et al.*
- RYBANSKÝ, M., *see* Moussas, X. *et al.*
- RYBANSKÝ, M., *see* Rušin, V. *et al.*
- SAAL, O., *see* Böhme, A. *et al.*
- SACKSON, M., *see* Lemen, J. R. *et al.*
- SAFRONOVA, U. I., *see* Aglizki, E. V. *et al.*
- SAHA, H. P. and E. TREFFTZ / Calculation of Coronal Line Intensities for Boron-Like Ions **87**, 233
- SAHA, S. K. and R. J. BESSEY / On the Spicular Density Enhancement in the Region of Formation **42**, 67 (*Research Note*)
- SAHAL-BRÉCHOT, S., *see* Bommier, V.
- SAHAL-BRÉCHOT, S., *see* Leroy, J. L. *et al.*
- SAH, M., *see* Gaur, V. P. *et al.*
- SAÏSSAC, J., *see* Pages, J. P. *et al.*
- SAITO, K. and E. TANDBERG-HANSEN / The Arch Systems, Cavities, and Prominences in the Helmet Streamer Observed at the Solar Eclipse, November 12, 1966 **31**, 105
- SAITO, Kuniji and Charles L. HYDER / A Concentric Ellipse Multiple-Arch System in the Solar Corona **5**, 61
- SAITO, K., A. I. POLAND, and R. H. MUNRO / A Study of the Background Corona near Solar Minimum **55**, 121
- SAITO, Mamoru and Shoji KATO / Convective Instability and Overstability in the Sunspot Umbra **3**, 531
- SAKAI, J.-I. / Modulational Instability of Fast Magnetosonic Waves in a Solar Plasma **84**, 109
- SAKAI, J. and K.-I. NISHIKAWA / A Model of 'Disparitions Brusques' (Sudden Disappearance of Eruptive Prominences) as an Instability Driven by MHD Waves **88**, 241
- SAKAI, J., T. TAJIMA, and F. BRUNEL / Forced Reconnection by Nonlinear Magnetic-Hydrodynamic Waves **91**, 103
- SAKURAI, K. / On the Characteristics of the Solar Active Regions Responsible for the Generation of Type III Radio Bursts at Hectometric Frequencies in August 1968 **16**, 125
- SAKURAI, K. / Energetic Electrons Associated with Solar Flares and their Relation to Type I Noise Activity **16**, 198
- SAKURAI, K. / The Acceleration and Propagation of Solar Cosmic Rays as Deduced from the Relative Abundance of Protons to Helium Nuclei **17**, 459
- SAKURAI, K. / A Note on the Acceleration Phase of High-Energy Particles in the Solar Flare on July, 1966 **20**, 147 (*Research Note*)
- SAKURAI, K. / Note on the Characteristics of Sunspot Groups which Produce Solar Proton Flares **23**, 142
- SAKURAI, K. / The Initial Stage of Development of Type IV Radio Bursts and the Relation to Expanding Magnetic Bottles **31**, 483
- SAKURAI, K. / Solar Longitude Dependence of Some Characteristics of Type III Radio Bursts from Metric to Hectometric Wavelengths **36**, 171
- SAKURAI, K. / Motion of Sunspot Magnetic Fields and Its Relation to Solar Flares **47**, 261
- SAKURAI, K. / Quasi-Biennial Periodicity in the Solar Neutrino Flux and Its Relation to the Solar Structure **74**, 35
- SAKURAI, K. and R. G. STONE / Active Solar Radio Regions at Metric Frequencies and the Interplanetary Sector Structures **19**, 247
- SAKURAI, T. / Calculation of Force-Free Magnetic Field with Non-Constant α **69**, 343
- SAKURAI, T. / Green's Function Methods for Potential Magnetic Fields **76**, 301
- SAKURAI, T. / Computed Magnetic Field Structure of the Flares Observed by HINOTORI Hard X-Ray Telescope **86**, 339
- SAKURAI, T. / Magnetic Field Structures of Hard X-Ray Flares Observed by Hinotori Spacecraft **95**, 311
- SAKURAI, T. and Y. UCHIDA / Magnetic Field and Current Sheets in the Corona above Active Regions **52**, 397
- SAKURAI, T., *see* Berton, R.
- SAKURAI, T., *see* Hirayama, T. *et al.*
- SAKURAI, T., *see* Shibata, K. *et al.*
- SAKURAI, T., *see* Takakura, T. *et al.*
- SAKURAI, T., *see* Uchida, Y.
- SALIBA, G. J. / Non-LTE Resonance Line Polarization with Partial Redistribution: the Solar Ca II K Line **98**, 1
- SALM-PLATZER, J., *see* Vial, J. C. *et al.*
- SAMAIN, D. and P. C. SIMON / Solar Flux Determination in the Spectral Range 150–210 nm **49**, 33
- SAMBUCO, A. M., *see* Caccin, B. *et al.*
- SAMSON, C., *see* Mayfield, E. B. *et al.*
- SANAHUJA, B., V. DOMINGO, K.-P. WENZEL, J. A. JOSELYN, and E. KEPPLER / A Large Proton Event Associated with Solar Filament Activity **84**, 321

- SANDLIN, G. D., *see* Widing, K. G. *et al.*
- SANTANGELO, N., H. HORSTMAN, and E. HORSTMAN-MORETTI / The Solar Albedo of Hard X-Ray Flares **29**, 143
- SANTIN, P. / Quasi-Oscillatory Decay in Type III Bursts **18**, 87 (*Research Note*)
- SANTIN, P. / Polarization Inversions in the Radio Emission at 237 MHz of McMath Zone 11482 **30**, 159 (*Research Note*)
- SARACENO, P., *see* Cattaneo, M. B. *et al.*
- SARI, James W. and Norman F. NESS / Power Spectra of the Interplanetary Magnetic Field **8**, 155
- SARI, JAMES W. and NORMAN F. NESS / Power Spectra of the Interplanetary Magnetic Field (*Errata*) **18**, 176 (**8**, 155)
- SARKAR, S. K., T. CHATTOPADHYAY, and M. K. DAS GUPTA / Some Studies on Solar Microwave Bursts in Relation to the Phases of the Associated H α -Flares and Their Spectral Nature **40**, 411
- SARKAR, S. K., *see* Das Gupta, M. K.
- SARKAR, S. K., *see* Das Gupta, M. K.
- SARKAR, S. K., *see* Das Gupta, M. K. *et al.*
- SARKAR, S. K., *see* Das Gupta, M. K. *et al.*
- SARKAR, S. K., *see* Das Gupta, M. K. *et al.*
- SARRIS, E. T. and S. M. KRIMIGIS / Multispacecraft Observations of the East-West Asymmetry of Solar Energetic Storm Particle Events **96**, 413
- SARRIS, E. T. and S. D. SHAWHAN / Characteristics of Electron and High-Energy Proton Flares **28**, 519
- SARRIS, E. T., G. C. ANAGNOSTOPOULOS, and P. C. TROCHOUTSOS / On the E-W Asymmetry and the Generation of ESP Events **93**, 195
- SARRIS, E. T., P. C. TROCHOUTSOS, and G. C. ANAGNOSTOPOULOS / Study on the Onsets of Solar Energetic Electron Events **83**, 51
- SASOROV, P. V., *see* Meerson, B. I. *et al.*
- SASTRI, J. H. and B. S. MURTHY / On the Relationships between sfe (Crochet) and Solar X-Ray and Microwave Bursts **41**, 477
- SASTRI, J. H., K. B. RAMESH, and J. V. S. V. RAO / Geomagnetic Disturbances Associated with Disappearing Solar Filaments **98**, 177
- SASTRY, CH. V. / Observations on the Time Structure of Solar Radio Bursts at a Wavelength of 12m **10**, 429
- SASTRY, CH. V. / Observations on the Time and Frequency Structure of Solar Decameter Radio Bursts **28**, 197
- SASTRY, CH. V., K. S. DWARKANATH, R. K. SHEVGAONKAR, and V. KRISHAN / Observations and Interpretation of the Slowly Varying Component of Solar Radio Emission at Decameter Wavelengths **73**, 363
- SASTRY, CH. V., R. K. SHEVGAONKAR, and M. N. RAMANUJA / Observations on the Slowly Varying Components of Solar Radio Emission at Decameter Wavelengths **87**, 391
- SASTRY, CH. V., *see* Krishan, V. *et al.*
- SASTRY, CH. V., *see* Subramanian, K. R. *et al.*
- SATO, T., *see* Stelzried, C. T. *et al.*
- SAUER, K., *see* Mollwo, L.
- SAUVAL, A. / The Solar Continuum from 900 to 130 000 Å and the Photospheric Temperature Model **3**, 89
- SAUVAL, A. / Identification of SiH Lines in the Solar Disk Spectrum **10**, 319
- SAVENKO, I. A., *see* Kovrizhnikh, O. M. *et al.*
- SAWANT, H. S., R. V. BHONSLE, and S. K. ALURKAR / Microscopic Spectral Features in Solar Decametric Bursts and Coronal Irregularities **50**, 481
- SAWANT, H. S., T. E. GERGELY, and M. R. KUNDU / Positions of Type II Fundamental and Harmonic Sources in the 30–100 MHz Range **77**, 249
- SAWANT, H. S., *see* Kaufmann, P. *et al.*
- SAWYER, C. / H α Mottles **24**, 79
- SAWYER, C. / Magnetic Fine Structure and the Solar Magnetic Monopole **35**, 37 (*Research Note*)
- SAWYER, C. / The Galloping Chromosphere **35**, 63
- SAWYER, C. / Two 'Negative Bursts' with Moving Filaments, 19 May 1969 **51**, 195
- SAWYER, C. / Are 'Negative Bursts' Due to Absorption? **51**, 203
- SAWYER, C. / Two 'Negative Bursts' with Moving Filaments, 19 May 1969 (*Errata*) **54**, 516 (**51**, 195)
- SAWYER, C. / Visibility and Rate of Coronal Mass Ejections **98**, 369
- SAWYER, C., A. ACHONG, and P. A. STAHL / SID Flare Production and Mt. Wilson Magnetic Class: an Alternative Interpretation **98**, 193 (*Research Note*)
- SAWYER, C. and S. F. HANSEN / Equatorial Coronal Arches and Geomagnetic Disturbances **26**, 370
- SAWYER, C. and M. W. HAURWITZ / Faculae and East-West Asymmetry of Sunspot Area **23**, 429
- SAWYER, C. B., *see* Wagner, W. J. *et al.*
- SAWYER, C., *see* Gergely, T. A. *et al.*
- SAZANOV, A. A., *see* Gnevyshev, M. N.
- SAZANOV, A. A., *see* Nikolsky, G. M. *et al.*
- SCALISE, E., JR. and P. KAUFMANN / Coupling of Microwaves at a Selected Solar Active Centre **34**, 189 (*Research Note*)
- SCALISE, E., JR., *see* Kaufmann, P. *et al.*
- SCALISE, E., JR., *see* Kaufmann, P. *et al.*

- SCALISE, E., JR., *see* Takakura, T.
- SCARIA, K. K. / Broad-Band, High-Resolution Photograph of the Solar Corona February 16, 1980 **85**, 235 (*Research Note*)
- SCHAAL, R. E., *see* Kaufmann, P. *et al.*
- SCHAAL, R. E., *see* Kaufmann, P. *et al.*
- SCHAAL, R. E., *see* Kaufmann, P. *et al.*
- SCHADEE, A. / An Upper Limit of the Swan Band Intensity in a Sunspot Spectrum **15**, 345
- SCHADEE, A., C. DE JAGER, and Z. ŠVESTKA / Enhanced X-Ray Emission above 3.5 keV in Active Regions in the Absence of Flares **89**, 287
- SCHADEE, A., *see* De Jager, C. *et al.*
- SCHADEE, A., *see* Kattenberg, A. *et al.*
- SCHADEE, A., *see* Švestka, Z.
- SCHANDA, E., *see* Flückiger, K. *et al.*
- SCHARMER, G., *see* Kneer, F. *et al.*
- SCHARMER, G. B., *see* Lites, B. W. *et al.*
- SCHATTEN, K. H. / Evidence for a Coronal Magnetic Bottle at 10 Solar Radii **12**, 484
- SCHATTEN, K. H. / A 'Source Surface Theory' Corollary: the Mean Solar Field-Interplanetary Field Correlation **15**, 499
- SCHATTEN, K. H. / Solar Polar Spin-down **32**, 315
- SCHATTEN, K. H. / Magnetic Convection **33**, 305
- SCHATTEN, K. H. / Reply to Gilman Concerning 'Solar Polar Spindown' **37**, 487 (*Research Note*)
- SCHATTEN, K. H. / Comment on Coronal Magnetic Field Models **63**, 275 (*Research Note*)
- SCHATTEN, K. H. and D. F. HEATH / A Mechanism for Solar Ultraviolet Flux Variability **73**, 13
- SCHATTEN, K. H., R. B. LEIGHTON, R. HOWARD, and J. M. WILCOX / Large-Scale Photospheric Magnetic Field: the Diffusion of Active Region Fields **26**, 283
- SCHATTEN, K. H., H. G. MAYR, and R. H. LEVINE / Photospheric Subrotation, Differential Rotation and Zonal Wind Bands: a Reverse Pirouette **71**, 169
- SCHATTEN, Kenneth H., Norman F. NESS and JOHN M. WILCOX / Influence of a Solar Active Region on the Interplanetary Magnetic Field **5**, 240
- SCHATTEN, Kenneth H., John M. WILCOX and Norman F. NESS / A Model of Interplanetary and Coronal Magnetic Fields **6**, 442
- SCHATTEN, K. H., *see* Fisk, L. A.
- SCHATTEN, K. H., *see* Koutchmy, S.
- SCHATTEN, K. H., *see* Mullan, D. J.
- SCHATTEN, K., *see* Sofia, S. *et al.*
- SCHATTEN, K. H., *see* Stelzried, C. T. *et al.*
- SCHATTEN, K. H., *see* Wilcox, J. M. *et al.*
- SCHATZMAN, E. / Stellar and Solar Flares **1**, 411
- SCHEGLOV, V. and YU. SLONIM / Solar Physics at the Tashkent Astronomical Observatory **11**, 157
- (*Report from Solar Institute*)
- SCHERICH, L., *see* Rušin, V. *et al.*
- SCHERRER, P. H. and M. EL-RAEY / The Relationship between the Slowly Varying Component of Solar Radio Emission and Large Scale Photospheric Magnetic Field Patterns **35**, 361
- SCHERRER, P. H. and J. M. WILCOX / Structure of the Solar Oscillation with Period near 160 Minutes **82**, 37
- SCHERRER, P. H., J. M. WILCOX, and R. HOWARD / The Mean Photospheric Magnetic Field from Solar Magnetograms: Comparisons with the Interplanetary Magnetic Field **22**, 418
- SCHERRER, PH. H., J. M. WILCOX, V. KOTOV, A. B. SEVERNY, and R. HOWARD / The Mean Magnetic Field of the Sun: Method of Observation and Relation to the Interplanetary Magnetic Field **52**, 3
- SCHERRER, PH. H., J. M. WILCOX, L. SVALGAARD, T. L. DUVAL, R., P. H. DITTMER, and E. K. GUSTAFSON / The Mean Magnetic Field of the Sun: Observations at Stanford **54**, 353
- SCHERRER, P. H., J. M. WILCOX, J. CHRISTENSEN-DALSGAARD, and D. O. GOUGH / Detection of Solar Five-Minute Oscillations of Low Degree **82**, 75
- SCHERRER, PH. H., *see* Dittmer, P. H. *et al.*
- SCHERRER, PH. H., *see* Duvall, T. L., Jr., *et al.*
- SCHERRER, PH. H., *see* Svalgaard, L. *et al.*
- SCHERRER, Philip H., *see* Frazier, Edward N.
- SCHERRER, P. H., *see* Severny, A. *et al.*
- SCHERRER, P. H., *see* Wilcox, J. M.
- SCHERRER, P., *see* El-Raey, M.
- SCHERRER, V. E., *see* Brueckner, G. E. *et al.*
- SCHERRER, V. E., *see* Sheeley, N. R. *et al.*
- SCHERRER, V. E., *see* Tousey, R. *et al.*
- SCHERRER, V., *see* Sheeley, Jr., N. R. *et al.*
- SCHUEER, M. A. and J. H. THOMAS / Umbral Oscillations as Resonant Modes of Magnetospheric Waves **71**, 21
- SCHUEER, M. A., *see* Thomas, J. H.
- SCHINDLER, K. / Similarities and Differences between Magnetospheric Substorms and Solar Flares **47**, 91 (*Invited Review*)
- SCHINDLER, K., J. BIRN, and L. JANICKE / Stability of Two-Dimensional Pre-Flare Structures **87**, 103
- SCHINDLER, K., *see* Birn, J. *et al.*
- SCHINDLER, K., *see* Zwingmann, W. *et al.*
- SCHINDLER, M., *see* Malville, J. McKim
- SCHLEBBE, H., *see* Mattig, W.
- SCHLEICHER, H. and E. H. SCHRÖTER / On Equivalent Widths in a Penumbral Spectrum (a Test of the Moe-Maltby Model) **17**, 31
- SCHMAHL, Edward J., *see* Malville, J. McKim

- SCHMAHL, E. J. / The Physical Relationship between Flares and Surges Observed in the Extreme Ultraviolet **69**, 135
- SCHMAHL, E. and E. HILDNER / Coronal Mass-Ejections-Kinematics of the 19 December 1973 Event **55**, 473
- SCHMAHL, E. J., M. BOBROWSKY, and M. R. KUNDU / Observations of Solar Filaments at 8, 15, 22 and 43 GHz **71**, 311
- SCHMAHL, E. J., P. V. FOUKAL, M. C. E. HUBER, R. W. NOYES, E. M. REEVES, J. G. TIMOTHY, J. E. VERNAZZA, and G. L. WITHBROE / Solar Prominences in the Extreme Ultraviolet as Observed from the Apollo Telescope Mount **39**, 337
- SCHMAHL, E. J., M. R. KUNDU, K. T. STRONG, R. D. BENTLEY, J. B. SMITH, JR., and K. R. KRALL / Active Region Magnetic Fields Inferred from Simultaneous VLA Microwave Maps, X-Ray Spectroheliograms, and Magnetograms **80**, 233
- SCHMAHL, E. J., M. R. KUNDU, P. B. LANDECKER, and D. L. MCKENZIE / Thermal and Nonthermal Phenomena in Solar Flare Loops at 20 cm Wavelength and in X-Rays **83**, 3
- SCHMAHL, E. J., Z. MOURADIAN, M. J. MARTRES, and I. SORU-ESCAUT / EUV Arcades: Signatures of Filament Instability **81**, 91
- SCHMAHL, E. J., R. K. SHEVGAONKAR, M. R. KUNDU, and D. MCCONNELL / Sharp Edges in Solar Microwave Spectra: Neutral Current Sheets or Cyclotron Lines? **93**, 305
- SCHMAHL, E. J., C. V. SOLODYNA, J. B. SMITH, JR., and C. C. CHENG / The Pre-Onset Morphology of the 5 September 1973 Flare **60**, 323
- SCHMAHL, E. J., *see* Chiuderi Drago, F. *et al.*
- SCHMAHL, E. J., *see* Newkirk, Jr., G. *et al.*
- SCHMAHL, E. J., *see* Orrall, F. Q.
- SCHMAHL, E. J., *see* Steinolfson, R. S. *et al.*
- SCHMIDT, G. K. / Results of a New Absolute Calibration of the Solar Flux Density at 2980 MHz **19**, 149 (*Research Note*)
- SCHMIDT, H. U., *see* Biermann, L.
- SCHMIDT, H. U., *see* Wagner, W. J. *et al.*
- SCHMIDT, R. R., *see* Condon, J. J.
- SCHMIDT, W., M. KNOLKER, and E. H. SCHRÖTER / RMS-Value and Power Spectrum of the Photospheric Intensity-Fluctuations **73**, 217
- SCHMIDTKE, Gerhard / Solar Irradiance below 120 nm and Its Variations **74**, 251
- SCHMIDT, W., *see* Durrant, C. J. *et al.*
- SCHMIEDER, B. / Wave Propagation in the Photosphere **47**, 435
- SCHMIEDER, B. / Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. I: Method **54**, 269
- SCHMIEDER, B. / Linear Hydrodynamical Equations Coupled with Radiative Transfer in a Non-Isothermal Atmosphere. II: Application to Solar Photospheric Observations **57**, 245
- SCHMIEDER, B., P. MEIN, M. J. MARTRES, and E. TANDBERG-HANSEN / Dynamic Evolution of Recurrent Mass Ejections Observed in H α and C IV Lines **94**, 133
- SCHMIEDER, B., *see* Martres, M.-J. *et al.*
- SCHNEEBERGER, T. J., *see* Egan, T. F.
- SCHNEEBERGER, T. J., *see* Pardon, L. *et al.*
- SCHOECHLIN, W. and A. MAGUN / A Statistical Investigation of Microwave Burst Spectra for the Determination of Source Inhomogeneities **64**, 349
- SCHÖCHLIN, W., *see* Kämpfer, N.
- SCHOLER, M. and J. W. BELCHER / The Effect of Alfvén Waves on MHD Fast Shocks **16**, 472
- SCHOLER, M. and G. MORFILL / Simulation of Solar Flare Particle Interaction with Interplanetary Shock Waves **45**, 227
- SCHOLER, M., D. HOVESTADT, and B. HÄUSLER / Change of Solar Flare Proton to Alpha Ratios during an Energetic Storm Particle Event **24**, 475
- SCHOLER, M., G. MORFILL, and A. K. RICHTER / Energetic Solar Particle Events in a Stream-Structured Solar Wind **64**, 391
- SCHOLERS, W. and E. WIEHR / Stokes-Spectropolarimetry with a Two-Dimensional Diode Array **99**, 349
- SCHOOLMAN, S. A. / Observation on the Detailed Correspondence of Magnetic and H α Features **21**, 57 (*Research Note*)
- SCHOOLMAN, S. A. / Formation of the Solar H α Profile **22**, 344
- SCHOOLMAN, S. A. / Contrast Elements in Birefringent Filters **30**, 225
- SCHOOLMAN, S. A. / Videomagnetograph Studies of Solar Magnetic Fields. II: Field Changes in an Active Region **32**, 379
- SCHOOLMAN, S. A. and E. D. GANZ / H α Flare Spectra **70**, 363
- SCHOOLMAN, S. A. and H. E. RAMSEY / The Dark Component of the Photospheric Network **50**, 25
- SCHOOLMAN, S. A., *see* Pope, T.
- SCHORN, R. A., A. T. YOUNG, and E. S. BARKER / Forbidden Ca II in the Sun Unmasked by Way of Venus **43**, 9
- SCHORN, R. A., *see* Young, A. T.
- SCHOVE, D. J. / Sunspot Turning-Points and Aurorae Since A.D. 1510 **63**, 423
- SCHREIER, M., *see* Ahluwalia, H. S.
- SCHRIJVER, J., *see* Kattenberg, A. *et al.*
- SCHRIJVER, J., *see* Strong, K. T. *et al.*

- SCHRIJVER, J., *see* Švestka, Z. *et al.* SCHRIJVER, J., *see* Sylwester, J. *et al.*
- SCHROETER, K. H. / Comments on a Formula Describing the Secular Course of Sunspot Activity **50**, 501
- SCHRÖTER, E. H. / The Solar Differential Rotation: Present Status of Observations **100**, 141 (*Invited Review*)
- SCHRÖTER, E. H. and H. WÖHL / Differential Rotation, Meridional and Random Motions of the Solar Ca⁺ Network **42**, 3
- SCHRÖTER, E. H. and H. WÖHL / Differential Rotation and Giant Cell Circulation of Solar Ca⁺-Network **49**, 19
- SCHRÖTER, E. H., H. WÖHL, D. SOLTAU, and M. VAZQUEZ / An Attempt to Compare the Differential Rotation of the Ca⁺-Network with That of the Photospheric Plasma **60**, 181
- SCHRÖTER, E. H., *see* Appenzeller, I.
- SCHRÖTER, E. H., *see* Beckers, J. M.
- SCHRÖTER, E. H., *see* Beckers, J. M.
- SCHRÖTER, E. H., *see* Brandt, P. N.
- SCHRÖTER, E. H., *see* Koch, A. *et al.*
- SCHRÖTER, E. H., *see* Koch, A. *et al.*
- SCHRÖTER, E. H., *see* Rossbach, M.
- SCHRÖTER, E. H., *see* Schleicher, H.
- SCHRÖTER, E. H., *see* Schmidt, W. *et al.*
- SCHRÖTER, E. H., *see* Wittmann, A.
- SCHRÖTER, E. H., *see* Wöhl, H. *et al.*
- SCHRÖTER, E., *see* Brückner, G.
- SCHULTZ, R. B. and O. R. WHITE / Temporal Variations of the Magnetic Field in Sunspots **35**, 309
- SCHULTZ, R. B., *see* Beckers, J. M.
- SCHULZE, B. M., A. K. RICHTER, and G. WIBBERENZ / Influence of Finite Injections and of Interplanetary Propagation on Time-Intensity and Time-Anisotropy Profiles of Solar Cosmic Rays **54**, 207
- SCHULZ, M., E. N. FRAZIER, and D. J. BOUCHER, JR. / Coronal Magnetic-Field Model with Non-Spherical Source Surface **60**, 83
- SCHULZ, M., *see* Levine, R. H. *et al.*
- SCHUMACHER, R. J., *see* Tousey, R. *et al.*
- SCHÜSSLER, M., *see* Balthasar, H.
- SCHÜSSLER, M., *see* Balthasar, H.
- SCHÜSSLER, M., *see* Balthasar, H. *et al.*
- SCHUURMANS, C. J. E. / Tropospheric Effects of Variable Solar Activity **74**, 417
- SCHWARTZ, Daniel A., *see* Hudson, Hugh S.
- SCHWARTZ, S. J. and N. BEL / On the Absence of Critical Levels in the Solar Atmosphere **92**, 133
- SCHWARTZ, S. J., P. S. CALLY, and N. BEL / Chromospheric and Coronal Alfvénic Oscillations in Non-Vertical Magnetic Fields **92**, 81
- SCHWARTZ, S. J., *see* Rowse, D. P. *et al.*
- SCHWENN, R., *see* Bougeret, J.-L. *et al.*
- SCHWENN, R., *see* Valdés Galicia, J. F. *et al.*
- SCHWENKE, H. and W. ELLING / Increase in the Response of the Earth's Atmosphere to the Sunspot Cycle with Height above Sea Level **74**, 355
- SCHWENKE, H. and W. ELLING / Dependence of Stratospheric Temperature on the 11-Year Solar Activity Cycle? **91**, 181
- SCHWENKE, H. and W. ELLING / A Possible Relationship between Spectral Bands in Sunspot Number and the Space-Time Organization of our Planetary System **93**, 403
- SCHWENKE, H., *see* Elling, W.
- SCHWISTER, B., *see* Ebel, A.
- SEAGRAVES, P. H., *see* Simon, G. W. *et al.*
- SEAR, J. F., *see* Webb, S. *et al.*
- SEAR, J., *see* Balogh, A. *et al.*
- SEEHAFER, N. / Determination of Constant α Force-Free Solar Magnetic Fields from Magnetograph Data **58**, 215
- SEEHAFER, N. / A Comparison of Different Solar Magnetic Field Extrapolation Procedures **81**, 69
- SEEHAFER, N. / An Example for Solar Flares Caused by Magnetic Field Non-Equilibrium **96**, 307
- SEEHAFER, N. and J. STAUDE / Evidence for an X-Type Neutral Sheet Producing Chromospheric Activity **67**, 121
- SEGUIN, F. H., *see* Petrasso, R. D. *et al.*
- SEIBOLD, J. R., *see* Greco, M. A. *et al.*
- SEIBOLD, J. R., *see* Grossi Gallegos, H. *et al.*
- SEIBOLD, J. R., *see* Machado, M. E.
- SEIDEL, B. L., *see* Bird, M. K. *et al.*
- SEKHON, B. S., *see* Daniel, R. R.
- SEMEL, M., *see* Henoux, J.-C. *et al.*
- SENEAUD, C., *see* Bonnelle, C. *et al.*
- SENEAUD, G., *see* Bonnelle, C. *et al.*
- SENGUPTA, P. R. / A Method of Calculating 0–20 Å Solar X-Ray Flux and Its Spectral Distribution Using 9.1 cm Spectroheliograms **17**, 160
- SENGUPTA, P. R. and A. K. CHAKRABORTY / A Study of Solar Radio Emission in the Light of Sengupta's Model of Coronal Active Regions **30**, 395
- SEN, H. K. and M. L. WHITE / A Physical Mechanism for the Production of Solar Flares **23**, 146
- SENTMAN, D. D. and S. D. SHAWHAN / A Search for 5 min Periodic Structure in Solar 2 cm Emission **35**, 83
- SERIO, S., G. S. VAIANA, G. GODOLI, S. MOTTA, V. PIRRONELLO, and R. A. ZAPPALA / Configuration and Gradual Dynamics of Prominence

- Related X-Ray Coronal Cavities **59**, 65
- SERMULINA, B. J., *see* Somov, B. V. *et al.*
- SEVERNY, A. B. / How Flares Can Be Understood **53**, 233
- SEVERNY, A. B. / Comments on Salyut-4 Observations of Active Regions on the Sun **53**, 285
- SEVERNY, A. and N. STEPANYAN / The Crimean Astrophysical Observatory **1**, 484 (*Report from Solar Institute*)
- SEVERNY, A. B., V. A. KOTOV, and T. T. TSAP / Present State of the Study of 160-Minutes Solar Oscillation **74**, 65
- SEVERNY, A., J. M. WILCOX, P. H. SCHERRER, and D. S. COLBURN / Comparison of the Mean Photospheric Magnetic Field and the Interplanetary Magnetic Field **15**, 3
- SEVERNY, A. B., *see* Gopasyuk, S. I. *et al.*
- SEVERNY, A. B., *see* Kosovichev, A. G.
- SEVERNY, A. B., *see* Kotov, V. A. *et al.*
- SEVERNY, A. B., *see* Koval, A. N.
- SEVERNY, A. B., *see* Moreton, G. E.
- SEVERNY, A. B., *see* Scherrer, Ph. H. *et al.*
- SEYKORA, E. J. / Observations of Very Low-Contrast White-Light Solar Structures Utilizing Differential Photometry **99**, 39 (*Research Note*)
- SHARE, G., *see* Forrest, D. J. *et al.*
- SHARP, B. M., *see* Kierein, J. W.
- SHAVIV, G., *see* Chitre, S. M.
- SHAWHAN, S. D., *see* Chen, H. S.-L.
- SHAWHAN, S. D., *see* Sarris, E. T.
- SHAWHAN, S. D., *see* Sentman, D. D.
- SHAWHAN, S. D., *see* Spangler, S. R.
- SHAW, M. L. / A Simulation of the Directivity Effect to Be Expected in Hard X-Ray Flares **27**, 436
- SHEA, M. A., *see* Smart, D. F.
- SHAW, M. L., *see* Brinkman, A. C.
- SHEA, M., *see* Dryer, A.
- SHEATHER, P. H., *see* Acton, L. W. *et al.*
- SHEELEY, N. R., JR. / Observations of Small-Scale Solar Magnetic Fields **1**, 171
- SHEELEY, N. R., JR. / The Evolution of the Photospheric Network **9**, 347
- SHEELEY, N. R., JR. / Using CN λ 3883 Spectroheliograms to Map Weak Photospheric Magnetic Fields **20**, 19
- SHEELEY, N. R., JR. / Observations of the Horizontal Velocity Field Surrounding Sunspots **25**, 98
- SHEELEY, N. R., JR. / Energy Released by the Interaction of Coronal Magnetic Fields **47**, 173
- SHEELEY, N. R., JR. / The Equatorward Extent of Auroral Activity during 1973–1974 **58**, 405
- SHEELEY, N. R., JR. / The Evolution of the Polar Coronal Holes **65**, 229
- SHEELEY, N. R., JR. / Temporal Variations of Loop Structures in the Solar Atmosphere **66**, 79
- SHEELEY, N. R., JR. and A. BHATNAGAR / The Reduction of the Solar Velocity Field into Its Oscillatory and Slowly-Varying Components **18**, 195
- SHEELEY, N. R., JR. and A. BHATNAGAR / Measurements of the Oscillatory and Slowly-Varying Components of the Solar Velocity Field **18**, 379
- SHEELEY, N. R., JR. and A. BHATNAGAR / Two-Dimensional Observations of the Velocity Field in and around Sunspots **19**, 338
- SHEELEY, N. R., JR., C. R. DEVORE, and J. P. BORIS / Simulations of the Mean Solar Magnetic Field during Sunspot Cycle 21 **98**, 219
- SHEELEY, N. R., JR. and O. ENGVOLD / Simultaneous Measurements of Magnetic Fields and Brightness Fields Using a 4-Image Spectroheliograph **12**, 69
- SHEELEY, N. R., JR. and L. GOLUB / Rapid Changes in the Fine Structure of a Coronal 'Bright Point' and a Small Coronal 'Active Region' **63**, 119
- SHEELEY, N. R., JR. and J. W. HARVEY / The Calculation of Force-Free Fields from Discrete Flux Distributions **45**, 275
- SHEELEY, N. R., JR. and J. W. HARVEY / Coronal Holes, Solar Wind Streams, and Geomagnetic Activity during the New Sunspot Cycle **59**, 159
- SHEELEY, N. R., JR. and J. W. HARVEY / Coronal Holes, Solar Wind Stream, and Geomagnetic Disturbances during 1978 and 1979 **70**, 237
- SHEELEY, N. R., JR. and R. A. HOWARD / The Equatorial Latitude of Auroral Activity during 1972–1977 **67**, 189
- SHEELEY, N. R., JR., J. R. ASBRIDGE, S. J. BAME, and J. W. HARVEY / A Pictorial Comparison of Interplanetary Magnetic Field Polarity, Solar Wind Speed, and Geomagnetic Disturbance Index during the Sunspot Cycle **52**, 485
- SHEELEY, N. R., JR., J. D. BOHLIN, G. E. BRUECKNER, J. D. PURCELL, V. SCHERRER, and R. TOUSEY / XUV Observations of Coronal Magnetic Fields **40**, 123
- SHEELEY, N. R., JR., J. D. BOHLIN, G. E. BRUECKNER, J. D. PURCELL, V. E. SCHERRER, R. TOUSEY, J. B. SMITH, JR., D. M. SPEICH, E. TANDBERG-HANSSSEN, R. M. WILSON, A. C. DE LOACH, R. B. HOOVER, and J. P. MCGUIRE / Coronal Changes Associated with a Disappearing Filament **45**, 377
- SHEELEY, N. R., JR., J. W. HARVEY, and W. C. FELDMAN / Coronal Holes, Solar Wind Streams, and Recurrent Geomagnetic Distur-

- bances: 1973–1976 **49**, 271
- SHEELEY, N. R., JR., *see* Bird, M. K. *et al.*
- SHEELEY, N. R., JR., *see* Bohlin, J. D.
- SHEELEY, N. R., JR., *see* Broussard, R. M. *et al.*
- SHEELEY, N. R., JR., *see* Chapman, G. A.
- SHEELEY, N. R., JR., *see* Chapman, G. A.
- SHEELEY, N. R., JR., *see* Cliver, E. W. *et al.*
- SHEELEY, N. R., JR., *see* DeVore, C. R. *et al.*
- SHEELEY, N. R., JR., *see* Fisher, R. R. *et al.*
- SHEELEY, N. R., JR., *see* Gergely, T. E. *et al.*
- SHEELEY, N. R., JR., *see* Harvey, J. W.
- SHEELEY, N. R., JR., *see* Harvey, K. L. *et al.*
- SHEELEY, N. R., JR., *see* Kahler, S. *et al.*
- SHEELEY, N. R., JR., *see* Koomen, M. J. *et al.*
- SHEELEY, N. R., JR., *see* Liu, S. Y.
- SHEELEY, N. R., JR., *see* Liu, S. Y. *et al.*
- SHEELEY, N. R., JR., *see* Poland, A. I. *et al.*
- SHEELEY, N. R., JR., *see* Tousey, R. *et al.*
- SHEELEY, N. R., JR., *see* Wagner, W. J. *et al.*
- SHELKE, R. N. and M. C. PANDE / Differential Rotation of Coronal Holes **95**, 193
- SHELTING, B. D., *see* Ioshpa, B. A. *et al.*
- SHERIDAN, K. V., N. R. LABRUM, W. J. PAYTEN, G. J. NELSON, and E. R. HILL / Preliminary Observations of Solar Radio Sources with the Culgoora Radioheliograph Operating at Four Frequencies **83**, 167
- SHERIDAN, K. V., *see* Dulk, G. A.
- SHERIDAN, K. V., *see* Dulk, G. A. *et al.*
- SHERIDAN, K. V., *see* Kai, K.
- SHERIDAN, K. V., *see* McLean, D. J.
- SHERIDAN, K. V., *see* Stewart, R. T.
- SHERMAN, J. C., *see* Acton, L. W. *et al.*
- SHERMANZON, E. M., *see* Volobuyev, S. A. *et al.*
- SHEVGAONKAR, R. K. and M. R. KUNDU / VLA Observations of a Radio Plage at Centimeter Wavelengths **98**, 119
- SHEVGAONKAR, R. K., *see* Melozzi, M. *et al.*
- SHEVGAONKAR, R. K., *see* Sastry, Ch. V. *et al.*
- SHEVGAONKAR, R. K., *see* Sastry, Ch. V. *et al.*
- SHEVGAONKAR, R. K., *see* Schmahl, E. J. *et al.*
- SHIBAHASHI, H. and Y. OSAKI / Theoretical Eigenfrequencies of Solar Oscillations of Low Harmonic Degree *l* in Five-Minute Range **82**, 231 (*Invited Review, Abstract*)
- SHIBAHASHI, H., *see* Takakura, T.
- SHIBASAKI, K., F. CHIUDERI-DRAGO, M. MELOZZI, C. SLOTTJE, and E. ANTONUCCI / Microwave, Ultraviolet, and Soft X-Ray Observations of Hale Region 16898 **89**, 307
- SHIBASAKI, K., *see* Chiuderi-Drago, F. *et al.*
- SHIBASAKI, K., *see* Kattenberg, A. *et al.*
- SHIBATA, K. / On the Origin of Strong Downdrafts Associated with the Birth of Sunspots **66**, 61
- SHIBATA, K. / Two Types of Jets and Origin of Macrospicules **81**, 9
- SHIBATA, K. and Y. SUEMATSU / Why Are Spicules Absent over Plages and Long under Coronal Holes? **78**, 333
- SHIBATA, K., T. NISHIKAWA, R. KITAI, and Y. SUEMATSU / Numerical Hydrodynamics of the Jet Phenomena in the Solar Atmosphere. II. Surges **77**, 121
- SHIBATA, K., Y. UCHIDA, and T. SAKURAI / Dynamical Interpretation of the Very Hot Region Appearing at the Top of a Loop **86**, 342
- SHIBATA, K., *see* Suematsu, Y. *et al.*
- SHIBUYA, N., *see* Takakura, T. *et al.*
- SHI-HUI, YE and JIN JIE-HAI / The Kinematic Processes in Solar Prominences and Flares and Their Spectral Features **96**, 113
- SHILOVA, N. S., *see* Platov, J. V.
- SHIMABUKURO, F. I. / A Comparison of 3.3 mm Bursts and H α Emission during Flares **5**, 498
- SHIMABUKURO, F. I. / The 3.3-mm Brightness Distribution on the Quiet Sun **12**, 438
- SHIMABUKURO, F. I. / The Observation of 3.3-mm Bursts and their Correlation with Soft X-Ray Bursts **15**, 424
- SHIMABUKURO, F. I. / Observations of the 1.4-mm Brightness Distribution on the Sun **18**, 247
- SHIMABUKURO, F. I. / On the Temperature and Emission Measure of Thermal Radio Bursts **23**, 169
- SHIMABUKURO, F. I., G. A. CHAPMAN, E. B. MAYFIELD, and S. EDELSON / On the Source of the Slowly Varying Component at Centimeter and Millimeter Wavelengths **30**, 163
- SHIMABUKURO, F. I., W. J. WILSON, T. T. MORI, and P. L. SMITH / 3.3 Millimeter Limb Brightening Measurements during the 30 June 1973 Total Solar Eclipse **40**, 359
- SHINE, R. A. and J. L. LINSKY / Physical Properties of Solar Chromospheric Plages. I. Line Profiles of the Ca II, H, K, and Infrared Triplet Lines **25**, 357
- SHINE, R. A. and J. L. LINSKY / A Facular Model Based on the Wings of the Ca II Lines **37**, 145
- SHINE, R. A. and J. L. LINSKY / Physical Properties of Solar Chromospheric Plages. II. Chromospheric Plage Models **39**, 49
- SHINE, R. A., *see* Athay, R. G. *et al.*
- SHINE, R. A., *see* Henze, W., Jr. *et al.*
- SHINE, R. A., *see* MacNeice, P. *et al.*
- SHINE, R. A., *see* Mount, G. H. *et al.*
- SHINE, R. A., *see* Poland, A. I. *et al.*
- SHINE, R. A., *see* Roussel-Dupré, D.
- SHINE, R. A., *see* Woodgate, B. E. *et al.*
- SHINE, R., *see* Henoux, J.-C. *et al.*
- SHIOMI, Y. / Spectra of Solar Microwave Burst

- up to 35 GHz **6**, 276 (*Research Note*)
- SHI, Z., *see* Wang, J. *et al.*
- SHMELEVA, O. P. and S. I. SYROVATSKII / Distribution of Temperature and Emission Measure in a Steadily Heated Solar Atmosphere **33**, 341
- SHUKLA, A. K., *see* Venkatesan, D. *et al.*
- SHUKLA, D. S., *see* Joshi, G. C. *et al.*
- SHURYGHIN, A. I., *see* Tindo, I. P. *et al.*
- SHURYGHIN, A. I., *see* Tindo, I. P. *et al.*
- SHURYGHIN, A. I., *see* Tindo, I. P. *et al.*
- SHUSHUNOV, V. V., *see* Kaverin, N. S. *et al.*
- SHUTER, W. L. H. / A Model for Solar Oscillations at cm and mm Wavelengths **48**, 85 (*Research Note*)
- SHUTER, W. L. H., *see* Joensen, P. *et al.*
- SIARKOWSKI, M. / A New Method for the Multi-temperature Analysis of Solar X-Ray Line Emission **84**, 131
- SIARKOWSKI, M. / Cyclotron Radio Emission in Plasma with Steep Temperature Gradient **94**, 105
- SIARKOWSKI, M., J. SYLWESTER, G. BROMBOSZCZ, V. V. KORNEEV, S. L. MANDELSHTAM, S. N. OPARIN, A. M. URNOV, I. A. ZHITNIK, and S. VASHA / Analysis of the High Resolution Mg XI X-Ray Spectra. II: Physical Parameters of the Plasma in Active Region McMath 14352 **77**, 183
- SIARKOWSKI, M., J. SYLWESTER, G. BROMBOSZCZ, V. V. KORNEEV, S. L. MANDELSHTAM, S. N. OPARIN, A. M. URNOV, and I. A. ZHITNIK / Analysis of the High-Resolution Mg XI X-Ray Spectra. III: Non-Thermal Interpretation of Some Spectra **81**, 63
- SIARKOWSKI, M., *see* Bromboszcz, G. *et al.*
- SIARKOWSKI, M., *see* Krutov, V. V. *et al.*
- SIDELNIKOV, Y. V., *see* Korneev, V. V. *et al.*
- SIGNORINI, C., *see* Diodato, L. *et al.*
- SIGNORINI, C., *see* Egidi, A.
- SILK, J. K., *see* Little-Marenin, I. R. *et al.*
- SILK, Joseph I., *see* Pasachoff, Jay M.
- SILLEN, R. M. J. and A. KATTENBERG / A Low β Coronal Loop Model. I: Kink Instabilities in the $\beta=0$ Limit **67**, 47
- SILLEN, R. M. J. and A. KATTENBERG / A Low β Coronal Loop Model. I: Kink Instabilities in the $\beta=0$ Limit **79**, 401 (**67**, 47)
- SILLEN, R., *see* Kattenberg, A.
- ILVA, A. F., *see* Machado, M. E. *et al.*
- ILVA, S., *see* Hudson, H. S. *et al.*
- ILVI, M., *see* Chiuderi Drago, F.
- IME, D. G., *see* MacQueen, R. M. *et al.*
- IME, D. G., *see* Munro, R. H.
- IME, D. G., *see* Owocki, S. P. *et al.*
- IME, D. G., *see* Wu, S. T. *et al.*
- SIMNETT, G. M. / The Release of Energetic Particles from the Sun **20**, 448
- SIMNETT, G. M. / Relativistic Electrons from the Sun Observed by IMP-4 **22**, 189
- SIMNETT, G. M. / A Correlation between Time-Overlapping Solar Flares and the Release of Energetic Particles **34**, 377
- SIMNETT, G. M. / Temperature Structure of Spatially Resolved Hard X-Ray Flares **86**, 289
- SIMNETT, G. M. and R. A. HARRISON / The Onset of Coronal Mass Ejections **99**, 291
- SIMNETT, G. M. and S. S. HOLT / Long Term Storage of Relativistic Particles in the Solar Corona **16**, 208
- SIMNETT, G. M., *see* Antonucci, E. *et al.*
- SIMNETT, G. M., *see* Dennis, B. R. *et al.*
- SIMNETT, G. M., *see* Doyle, J. G. *et al.*
- SIMNETT, G. M., *see* Harrison, R. A. *et al.*
- SIMNETT, G. M., *see* Harrison, R. A. *et al.*
- SIMNETT, G. M., *see* MacNeice, P. *et al.*
- SIMNETT, G. M., *see* Švestka, Z. *et al.*
- SIMNETT, G. M., *see* Van Beek, H. F. *et al.*
- SIMNETT, G., *see* Benz, A. O. *et al.*
- SIMNETT, G., *see* Strong, K. T. *et al.*
- SIMON, G. / Le rayonnement X du soleil lors de l'éclipse du 20 mai 1966 **7**, 295
- SIMON, G., N. MEIN, P. MEIN, and L. GESZTELYI / Preflare Activity of Solar Prominences **93**, 325
- SIMON, G., *see* Mouradian, Z.
- SIMON, G. W. and R. W. NOYES / Observed Heights of EUV Lines formed in the Transition Zone and Corona **22**, 450
- SIMON, G. W. and R. W. NOYES / Solar Rotation as Measured in EUV Chromospheric and Coronal Lines **26**, 8
- SIMON, G. W. and N. O. WEISS / On the Magnetic Field in Pores **13**, 85
- SIMON, G. W. and J. B. ZIRKER / A Search for the Footpoints of Solar Magnetic Fields **35**, 331
- SIMON, G. W., P. H. SEAGRAVES, R. TOUSEY, J. D. PURCELL, and R. W. NOYES / Observed Heights of EUV Lines Formed in the Transition Zone and Corona. II: NRL Rocket Observations **39**, 121
- SIMON, G. W., N. O. WEISS, and A. H. NYE / Simple Models for Magnetic Flux Tubes **87**, 65
- SIMON, G. W., *see* Altrrock, R. C. *et al.*
- SIMON, G. W., *see* White, O. R.
- SIMON, G. W., *see* Worden, S. P.
- SIMON, M. / High Resolution Observations of the Chromosphere at mm and cm Wavelengths **21**, 297
- SIMON, M. and B. A. WICKSTRÖM / Radio Observations of Filaments during the Eclipses of September 11, 1969 and March 7, 1970 **20**, 122

- SIMON, M. and H. ZIRIN / The Coarse Structure of the Solar Atmosphere **9**, 317
- SIMON, M., *see* Bohlin, J. D.
- SIMON, P. A. / Polar Coronal Holes and Solar Cycles **63**, 399
- SIMON, P. A., *see* Legrand, J. P.
- SIMON, P. C. / Solar Irradiance between 120 and 400 nm and Its Variations **74**, 273
- SIMON, P. C., *see* Baets, P. de *et al.*
- SIMON, P. C., *see* Samain, D.
- SIMON, P. C., *see* Thuillier, G. *et al.*
- SIMON, P., *see* Ackerman, M.
- SIMON, P., *see* Axisa, F. *et al.*
- SIMON, P., *see* Švestka, Z.
- SINANOGU, O., *see* Nicolaides, C. A.
- SINGER, C., *see* Roxburgh, I. W.
- SINGER, S., *see* Argo, H. V.
- SINGH, J. / Clues to the Mode of Excitation of Fe x Ions in the Solar Corona from the 1980 Eclipse Observations **95**, 253
- SINGH, J. and M. K. V. BAPPU / A Dependence on Solar Cycle of the Size of the Ca⁺ K Plage **71**, 161
- SINGH, J. and T. P. PRABHU / Variations in the Solar Rotation Rate Derived from Ca⁺ K Plage Areas **97**, 203
- SINGH, P. D. and W. J. MACIEL / Possibility of ²⁴MgH⁺ in the Solar Atmosphere – Higher Resolution Rotation-Vibration Spectra **49**, 217
- SINGH, P. D., *see* de Gouveia, E. M.
- SINITIN, V. G., *see* Baselyan, L. L.
- SISCOE, G. L. / Fluid Dynamics of Thin Solar Wind Filaments **13**, 490
- SISCOE, G. L. and R. L. CAROVILLANO / Critical Point Regularity Conditions and Asymptotic Solutions to the Time Stationary, Linearized, Inhomogeneous Solar Wind Flow Problem **23**, 211
- SISCOE, G. L. and P. J. COLEMAN, Jr. / On the North-South Asymmetry in the Solar Wind **8**, 415
- SISCOE, G. L. and L. T. FINLEY / Meridional (North-South) Motions of the Solar Wind **9**, 452
- SISCOE, G. L., N. U. CROOKER, and L. CHRISTOPHER / A Solar Cycle Variation of the Interplanetary Magnetic Field **56**, 449
- SISCOE, G. L., James M. TURNER and Alan J. LAZARUS / Simultaneous Plasma and Magnetic-Field Measurements of Probable Tangential Discontinuities in the Solar Wind **6**, 456
- SISCOE, G. L., *see* Carovillano, R. L.
- SISCOE, G. L., *see* Wang, P. K.
- SIVARAMAN, K. R. / On the Relation between Sunspot Area Changes and Flare Occurrences **6**, 152 (*Research Note*)
- SIVARAMAN, K. R. / Observational Study of the Five-Minute Oscillations in the Solar Atmosphere. II: Coherence and Phase Spectra of Velocity and Intensity Fluctuations **33**, 333
- SIVARAMAN, K. R. / An Interpretation of the Correlation in the Intensity Fluctuations in H and K of Ca II and b₁ of Mg I **36**, 49 (*Research Note*)
- SIVARAMAN, K. R. / Ca II K Bright Points and the Solar Cycle **94**, 235 (*Research Note*)
- SIVARAMAN, K. R. and W. C. LIVINGSTON / Ca II K_{2v} Spectral Features and Their Relation to Small-Scale Photospheric Magnetic Fields **80**, 227
- SIVARAMAN, K. R., *see* Bappu, M. K. V.
- SIVARAMAN, K. R., *see* Bappu, M. K. V.
- SIVARAMAN, K. R., *see* Bappu, M. K. V. *et al.*
- SIVARAMAN, K. R., *see* Makarov, V. I.
- SIVARAMAN, K. R., *see* Makarov, V. I. *et al.*
- SIVARAMAN, C., *see* Krishan, V.
- SKOCHILOV, V. G., *see* Teplitskaja, R. B. *et al.*
- SKRYNNIKOV, YU. I., *see* Nocera, L. *et al.*
- SKUMANICH, A., *see* Athay, R. Grant
- SKUMANICH, A., *see* Poland, A. *et al.*
- SKUMANICH, A., *see* Sou-Yang Liu
- SLAUGHTER, C. D. and A. M. WILSON / Space and Time Variations of the Solar Na D Line Profiles **24**, 43
- SLAUGHTER, C. D., *see* Brault, J. W. *et al.*
- SLAUGHTER, C. D., *see* Pierce, A. K.
- SLAUGHTER, C. D., *see* White, O. R. *et al.*
- SLAUGHTER, C., *see* Giovannelli, R. G.
- SLAVIN, V. S., *see* Sokolov, V. S. *et al.*
- SLOAN, William A. / Observations of Solar Chromospheric Fine Structures in the Light of Lyman- α **4**, 196
- SLOAN, William A. / Intensity Measurements of Chromospheric Fine Structures in Lyman- α **5**, 329
- SLONIM, YU. M. and Z. B. KOROBOVA / Investigation of Five White Light Flares **40**, 397
- SLONIM, YU., *see* Scheglov, V.
- SLOTTJE, C. / Peculiar Absorption and Emission Microstructures in the Type IV Solar Outbursts of March 2, 1970 **25**, 210
- SLOTTJE, C., *see* Caroubalos, C. *et al.*
- SLOTTJE, C., *see* Chiuderi-Drago, F. *et al.*
- SLOTTJE, C., *see* De Groot, T. *et al.*
- SLOTTJE, C., *see* Fárník, F. *et al.*
- SLOTTJE, C., *see* Garczyńska, I. N. *et al.*
- SLOTTJE, C., *see* Kuijpers, J.
- SLOTTJE, C., *see* Shibasaki, K. *et al.*
- SMALDONE, L. A., *see* Azzarelli, L. *et al.*
- SMALDONE, L. A., *see* Caccin, B. *et al.*
- SMART, D. F. and M. A. SHEA / Solar Proton

- Event Classification System **16**, 484 (*Research Note*)
- SMART, M., *see* Foukal, P.
- SMARTT, R. N. and Z. ZHANG / Visible Coronal Emission Associated with a Quiescent Prominence **90**, 315
- SMARTT, R. N., *see* Athay, R. G. *et al.*
- SMARTT, R. N., *see* House, L. L.
- SMARTT, R. N., *see* Querfeld, C. W.
- SMARTT, R. N., *see* Querfeld, C. W. *et al.*
- SMARTT, R. N., *see* Wagner, W. J. *et al.*
- SMERD, S. F. / Fundamental and Harmonic Radiation in Solar Type III Bursts **46**, 493
- SMERD, S. F. and G. A. DULK / The Onset of Flares at the Meter Wavelengths **47**, 285
- SMERD, S. F., *see* Dulk, G. A. *et al.*
- SMERD, S. F., *see* Palmer, I. D.
- SMITH, C. J., *see* Labrum, N. R. *et al.*
- SMITH, C. J., *see* Stewart, R. T. *et al.*
- SMITH, D. F. / On the Relative Intensity of Second Branches of U-like Solar Radio Bursts **13**, 444 (*Research Note*)
- SMITH, D. F. / Towards a Theory for Type III Solar Radio Bursts. I: Nature of the Exciting Agency **15**, 202
- SMITH, D. F. / Neutralization and Stabilization of Particle Streams in the Corona and Type III Radio Bursts **23**, 191
- SMITH, D. F. / Towards a Better Dynamic Theory for Type III Radio Bursts **33**, 213
- SMITH, D. F. / Towards a Theory for Type III Solar Radio Bursts. II: The Radiation Source **34**, 393
- SMITH, D. F. / Scattering in the Radiation Source and the Fundamental-Harmonic Hypothesis **46**, 529
- SMITH, D. F. / First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares **66**, 135
- SMITH, D. F. and W. D. DAVIS / The Necessity of Fundamental Emission in Type III Bursts **41**, 439
- SMITH, D. F. and L. A. MUTH / Time Delays in Large and Small Loop Thermal Models for Hard X-Ray Bursts **90**, 83
- SMITH, D. F. and G. W. PNEUMAN / Particle Motions in Coronal Streamers and Type III Radio Bursts **25**, 461
- SMITH, D. F. and D. S. SPICER / Plasma Radiation Diagnostics of the Primary Energy Release Region in Solar Flares **62**, 359
- SMITH, D. F. and A. C. RIDDLE / Towards a Theory for Type III Solar Radio Bursts. III: The Radiation Source Including Scattering **44**, 471
- SMITH, D. F., *see* Altschuler, M. D. *et al.*
- SMITH, D. F., *see* Magelssen, G. R.
- SMITH, D. F., *see* Sturrock, P. A. *et al.*
- SMITH, D. F. (ed.), *see* Sturrock, P. A. *et al.* (eds.)
- SMITH, E. A. and E. R. PRIEST / The Formation of Solar Prominences by Thermal Instability in a Current Sheet **53**, 25
- SMITH, E. A., *see* Priest, E. R.
- SMITH, E. J., *see* Rhodes, E. J., Jr. *et al.*
- SMITH, E. v. P., *see* Liu, S.-Y.
- SMITH, E. v. P., *see* Liu, S. Y. *et al.*
- SMITH, G., *see* Lambert, D. L. *et al.*
- SMITH, G., *see* Petford, A. D. *et al.*
- SMITH, J. B., JR., D. M. SPEICH, R. M. WILSON, E. TANDBERG-HANSEN, and S. T. WU / Prominence Mass Ejections and their Effects on the Corona. I: The Eruptive Prominence of 21 August 1973 and the Surge of 4 December 1973 **52**, 379
- SMITH, J. B., JR., *see* Cheng, Chung-Chieh *et al.*
- SMITH, J. B., JR., *see* Krall, K. R. *et al.*
- SMITH, J. B., JR., *see* Krall, K. R. *et al.*
- SMITH, J. B., JR., *see* Krall, K. R. *et al.*
- SMITH, J. B., JR., *see* Schmahl, E. J. *et al.*
- SMITH, J. B., JR., *see* Schmahl, E. J. *et al.*
- SMITH, J. B., JR., *see* Wu, S. T. *et al.*
- SMITH, J. B., *see* deLoach, A. C. *et al.*
- SMITH, J. B., *see* Hagyard, M. J. *et al.*
- SMITH, J. B., *see* Hagyard, M. J. *et al.*
- SMITH, J. B., *see* McGuire, J. P. *et al.*
- SMITH, J. B., *see* Sheeley, N. R. *et al.*
- SMITH, J. B., *see* Strong, K. T. *et al.*
- SMITH, L. G., *see* Weeks, L. H.
- SMITH, M. A. and H. FRISCH / Applications of Fourier Analysis to Broadening of Stellar Line Profiles. V: Effects of Finite Sized Eddies on Solar Lines **47**, 461
- SMITH, P. H., *see* McAllister, H. C.
- SMITH, P. L., *see* Shimabukuro, F. I. *et al.*
- SMITH, R. A., M. L. GOLDSTEIN, and K. PAPADOPOULOS / On the Theory of the Type III Burst Exciter **46**, 515
- SMITH, Sara F. and Harry E. RAMSEY / Flare Positions relative to Photospheric Magnetic Fields **2**, 158
- SMITH, Sheldon M., *see* Sturrock, P. A.
- SMITH, S. M., *see* Suffolk, G. C. J.
- SMITHSON, R. C. / Videomagnetograph Studies of Solar Magnetic Fields. I: Magnetic Field Diffusion in Weak Plage Regions **29**, 365
- SMITHSON, R. C. / The Lockheed Diode Array Magnetograph **40**, 241
- SMITT, R. / Identification of Forbidden Coronal Lines of Fe x and Ni xii **51**, 113
- SMITT, R., *see* Edlén, B.
- SNEIBRUN, C. V., *see* Machado, M. E. *et al.*

- SNIDER, J. L. / Atomic-Beam Study of the Solar 7699 Å Potassium Line and the Solar Gravitational Red-Shift **12**, 352
- SNIDER, J. L. / Comments on Two Recent Measurements of the Solar Gravitational Red-Shift **36**, 233 (*Research Note*)
- SNIDER, J. L. / New Absolute Spectroscopic Measurement of the Solar Equatorial Rotation Rate **84**, 377
- SNIDER, J. L., J. P. EISENSTEIN, and G. R. OTTEN / Atomic-Beam Study of the 5 min Solar Wavelength Oscillations **36**, 303
- SNIDER, J. L., A. M. HOWARD, M. D. KEARNS, S. W. THOMAS, and P. A. TINKER / Absolute Spectroscopic Determination of Solar Rotation **61**, 3
- SNIJDERS, R. / Comment on the X-Ray Event of July 7, 1966 **6**, 290
- SNIJDERS, R. / Theory of Deka-keV Solar X-Ray Bursts **4**, 432
- SNODGRASS, H. B. / Separation of Large-Scale Photospheric Doppler Patterns **94**, 13
- SNODGRASS, H. B. and R. HOWARD / Torsional Oscillations of Low Mode **95**, 221
- SNODGRASS, H. B., R. HOWARD, and L. WEBSTER / Recalibration of Mount Wilson Doppler Measurements **90**, 199 (*Research Note*)
- SOFIA, S. and K. L. CHAN / Quick Matching Technique to Study the Relationship between Solar Radius and Luminosity Variations **76**, 145
- SOFIA, S., L. OSTER, and K. SCHATTEN / Solar Irradiance Modulation by Active Regions during 1980 **80**, 87
- SOFUE, Y., K. KAWABATA, F. TAKAHASHI, and N. KAWAJIRI / Coronal Faraday Rotation of the Crab Nebula, 1971–1975 **50**, 465
- SOFUE, Y., *see* Kawabata, K. *et al.*
- SOKOLOV, V. S. and A. G. KOSOVICHEV / Non-linear Stage of Instability Due to Local Joule-Overheating in the Solar Active Regions **57**, 73
- SOKOLOV, V. S., S. S. KATSNELSON, A. G. KOSOVICHEV, and V. S. SLAVIN / Skinning Process Stability of the Magnetic Field in the Solar Active Regions **51**, 293
- SOKOLOV, V. S., *see* Denisenko, V. V. *et al.*
- SOLODYNA, C. V., A. S. KRIEGER, and J. T. NOLTE / Observations of the Birth of a Small Coronal Hole **54**, 123
- SOLODYNA, C. V., *see* Gerassimenko, M. *et al.*
- SOLODYNA, C. V., *see* Nolte, J. T. *et al.*
- SOLODYNA, C. V., *see* Schmahl, E. J. *et al.*
- SOLODYNA, C. V., *see* Švestka, Z. *et al.*
- SOLODYNA, C. V., *see* Webb, D. F. *et al.*
- SOLONSKY, Y. A. / On the Dependence of the Linear Velocity of Solar Rotation on Latitude and Optical Depth **23**, 3
- SOLTAU, D., *see* Schröter, E. H. *et al.*
- SOMASUNDARAM, K. and C. UBEROI / Compressibility Effects on Hydromagnetic Surface Waves **81**, 19
- SOMOGYI, A. J., *see* Gombosi, T. *et al.*
- SOMOV, B. V. / X-Ray Heating of a Low-Temperature Region in Chromospheric Flares **42**, 235
- SOMOV, B. V. / Heat Transfer in Solar Flares **60**, 315
- SOMOV, B. V. and S. I. SYROVATSKII / On the Low-Temperature Region of Chromospheric Flares **39**, 415
- SOMOV, B. V. and S. I. SYROVATSKII / Current Sheets as the Source of Heating for Solar Active Regions **55**, 393
- SOMOV, B. V. and S. I. SYROVATSKII / Thermal Trigger for Solar Flares and Coronal Loops Formation **75**, 237
- SOMOV, B. V. and V. S. TITOV / Magnetic Reconnection in a High-Temperature Plasma of Solar Flares **95**, 141
- SOMOV, B. V., B. J. SERMULINA, and A. R. SPEKTOR / Hydrodynamic Response of the Solar Chromosphere to an Elementary Flare Burst. II: Thermal Model **81**, 281
- SOMOV, B. V., S. I. SYROVATSKII, and A. R. SPEKTOR / Hydrodynamic Response of the Solar Chromosphere to an Elementary Flare Burst. I: Heating by Accelerated Electrons **73**, 145
- SOMOV, B. V., *see* Duijveman, A. *et al.*
- SOMOV, B. V., *see* Machado, M. E. *et al.*
- SOMOV, B. V., *see* Nocera, L. *et al.*
- SOMOV, B. V., *see* Platov, Yu. V. *et al.*
- SOMOV, B. V., *see* Rust, D. M.
- SOMOV, B., *see* Švestka, Z. *et al.*
- SOOD, R. K. / A Search for High Energy Gamma Rays from Solar Active Regions **23**, 183
- SOPRANZI, N., *see* Cimino, M.
- SØRENSEN, G., *see* Andersen, T.
- SØRLI, H., *see* Hauge, Ø.
- SORU-ESCAUT, I., *see* Axisa, F. *et al.*
- SORU-ESCAUT, I., *see* Martres, M.-J.
- SORU-ESCAUT, I., *see* Martres, M.-J. *et al.*
- SORU-ESCAUT, I., *see* Martres, M.-J. *et al.*
- SORU-ESCAUT, I., *see* Mouradian, Z.
- SORU-ESCAUT, I., *see* Mouradian, Z. *et al.*
- SORU-ESCAUT, I., *see* Schmahl, E. J. *et al.*
- SORU-ISCOVICI, I., *see* Martres, M.-J.
- SOTIROVSKI, P., *see* Boyer, R. *et al.*
- SOTIROVSKY, P., *see* Boyer, R. *et al.*
- SOU-YANG LIU, *see* Kundu, M. R.
- SOU-YANG LIU, *see* Kundu, M. R. *et al.*
- SPANNAGL, C. / Photoelectric Measurement of the

- Coronal Emission Line $\lambda 5303$ by an Automatic Coronal Photometer **58**, 319 (*Research Note*)
- SPARKS, L. and G. VAN HOVEN / The Physics of Thermal Instabilities in Two Dimensions **97**, 283
- SPEER, R. J., *see* Connerade, J. P. *et al.*
- SPEER, R. J., *see* Jones, T. L. J. *et al.*
- SPEER, R. J., *see* Orrall, F. Q.
- SPEICH, D. M., *see* McGuire, J. P. *et al.*
- SPEICH, D. M., *see* Sheeley, N. R. *et al.*
- SPEICH, D. M., *see* Smith, J. B., Jr. *et al.*
- SPEKTOR, A. R., *see* Somov, B. V. *et al.*
- SPEKTOR, A., *see* Duijveman, A. *et al.*
- SPEKTOR, A. R., *see* Somov, B. V. *et al.*
- SPICER, D. S. / A Comment on the Acceleration of Charged Particles in the Presence of Micro-Turbulence as Related to Solar Flares **51**, 431 (*Research Note*)
- SPICER, D. S. / The Thermal and Non-Thermal Flare: a Result of Non-Linear Threshold Phenomena during Magnetic Field-Line Reconnection **53**, 249
- SPICER, D. S. / An Unstable Arch Model of a Solar Flare **53**, 305
- SPICER, D. S. / Electrostatically Unstable Heat Flow during Solar Flares and its Consequences **54**, 379
- SPICER, D. S. / Non-Thermal Effects Associated with Steep Temperature Gradients in the Transition Zone **62**, 269
- SPICER, D. S. / A Possible Observational Test to Distinguish between Slow and Transient Current Buildup Prior to Solar Flares **64**, 121
- SPICER, D. S. / Loop Models of Solar Flares: Revisions and Comparisons **70**, 149
- SPICER, D. S. / First Phase Heating and Particle Acceleration during Solar Flares by Fast Tearing Modes **71**, 115
- SPICER, D. S. / Coronal Heating and Photospheric Boundary Conditions **88**, 43
- SPICER, D. S. and J. C. BROWN / A Classification Scheme for Solar Flare Models **67**, 385
- SPICER, D. S. and J. DAVIS / The Stark Broadening Mechanism in an Unstable Plasma **43**, 107 (*Research Note*)
- SPICER, D. S. and Z. ŠVESTKA / Transient Brightenings of Interconnecting Loops. III: Interpretation **87**, 271
- SPICER, D. S., *see* Gibons, M.
- SPICER, D. S., *see* Hoyng, P. *et al.*
- SPICER, D. S., *see* MacNeice, P. *et al.*
- SPICER, D. S., *see* Smith, D. F.
- SPIZZICHINO, A., *see* Pizzichini, G. *et al.*
- SPRANGLER, S. R. and S. D. SHAWHAN / Short Duration Solar Microwave Bursts and Associated Soft X-Ray Emission **37**, 189
- SPRINGER, L. A., *see* Acton, L. W. *et al.*
- SPRUIT, H. C. / A Model of the Solar Convection Zone **34**, 277
- SPRUIT, H. C. / Pressure Equilibrium and Energy Balance of Small Photospheric Flux Tubes **50**, 269
- SPRUIT, H. C. / Heat Flow near Obstacles in the Solar Convection Zone **55**, 3
- SPRUIT, H. C. / Convective Collapse of Flux Tubes **61**, 363
- SPRUIT, H. C. / Propagation Speeds and Acoustic Damping of Waves in Magnetic Flux Tubes **75**, 3
- SPRUIT, H. C. and C. ZWAAN / The Size Dependence of Contrasts and Numbers of Small Magnetic Flux Tubes in an Active Region **70**, 207
- SPRUIT, H. C. and E. G. ZWEIBEL / Convective Instability of Thin Flux Tubes **62**, 15
- SREEKANTAN, B. V., *see* Fukada, Y. *et al.*
- STAEELIN, David H., Norman E. GAUT, Sara E. LAW and Woodruff T. SULLIVAN III / Spectrum Measurements of the Sun near 1 cm Wavelength **3**, 26
- STAHL, P. A., *see* Achong, A.
- STAHL, P. A., *see* Achong, A. *et al.*
- STAHL, P. A., *see* Sawyer, C. *et al.*
- STANEK, W. / A Method for the Evaluation of the Brightness Distribution in the Solar Corona **21**, 121
- STANEK, W. / Periodicities in the Longitude Distribution of Sunspots **27**, 89
- STANGER, A., *see* MacQueen, R. M. *et al.*
- STARK, J. P., *see* Acton, L. W. *et al.*
- STARR, R., *see* Thomas, R. J. *et al.*
- STATHOPOULOUTSOGA, M., *see* Deliyannis, J. *et al.*
- STAUDE, J. / About the Influence of Inhomogeneities of Magnetic Fields on Line Contours and Magnetographic Measurements **8**, 264
- STAUDE, J. / Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. II: The Influence of Different Atmospheric Models and of a Magnetic Field Gradient **12**, 84
- STAUDE, J. / Line Formation in a Magnetic Field and the Interpretation of Magnetographic Measurements. III: Calculations for Different Spot Models and Arbitrary Depth Dependence of the Magnetic Field Vector **15**, 102
- STAUDE, J. / On Apparent Differences in Magnetic Field Strengths Measured from Zeeman Splittings of Molecular Lines and Fe I $\lambda 5250.2 \text{ \AA}$ **17**, 331 (*Research Note*)
- STAUDE, J. / A Generalized Analytic Solution to

- the Equations of Transfer in a Magnetic Field **18**, 22 (*Research Note*)
- STAUDE, J. / Remarks on Some Recent Papers Concerning Line Formation in a Magnetic Field **18**, 24 (*Research Note*)
- STAUDE, J. / On the Mean Depth of Line Formation in a Magnetic Field **24**, 255
- STAUDE, J. / On the Interpretation of some Peculiarities Observed in Zeeman-Split Line Contours in Sunspot **32**, 403
- STAUDE, J., Y. D. ŽUGZDA, and V. LOCANS Interpretation of Oscillations in UV Lines Observed above Sunspot Umbrae **95**, 37
- STAUDE, J., *see* Bachmann, G. *et al.*
- STAUDE, J., *see* Domke, H.
- STAUDE, J., *see* Seehafer, N.
- STAUDE, J., *see* Žugžda, Y. D. *et al.*
- STAUDE, J., *see* Žugžda, Y. D. *et al.*
- STAVELAND, L. / Determination of the Spread Function for Solar Stray Light **12**, 328 (*Research Note*)
- STAVELAND, L. / Water Vapour in Sunspots **26**, 90
- STAVELAND, L. / A Gaussian Spread Function for the Solar Aureole **36**, 235 (*Research Note*)
- STAVELAND, L., *see* Maltby, P.
- STEBBINS, R. and C. WILSON / The Measurement of Long-Period Oscillations at Sacramento Peak Observatory and South Pole **82**, 43
- STEBBINS, R. T., P. R. GOODE, and H. A. HILL / Observation of Five-Minute-Period Gravity Waves in the Solar Photosphere **82**, 163 (*Invited Review, Abstract*)
- STEENBEEK, J. C. M., *see* Brants, J. J.
- STEENMAN, L., *see* Gabriel, A. H. *et al.*
- STEFFEN, P. / A Radio Burst with Peculiar Polarization Behaviour in July 1974 **44**, 149
- STEFFEN, P. / On the Type of Spectra of S-Component Sources and their Correlation with Flare Occurrence **67**, 89
- STEFFEN, P., *see* Hachenberg, O. *et al.*
- STEFFEN, W., *see* Tindo, I. P. *et al.*
- STEINBERG, J. L., M. POQUÉRUSSE, and S. HOANG / About the Observed Brightness Distribution of Solar Radio Bursts on Decameter Wavelengths and a Possible Effect from the Ionosphere **64**, 359
- STEINBERG, J. L., *see* Cane, H. V. *et al.*
- STEINITZ, R. / Momentum Flux Invariance and Solar Wind Sources **83**, 379
- STEINITZ, R., *see* Gebbie, K. B.
- STEINOLFSON, R. S. / Type II Radio Emission in Coronal Transients **94**, 193
- STEINOLFSON, R. S. and E. TANDBERG-HANSSSEN / Thermally Conductive Flows in Coronal Holes **55**, 99
- STEINOLFSON, R. S., E. J. SCHMAHL, and S. T. WU / Hydrodynamic Simulations of Flare/Storm Events **63**, 187
- STEINOLFSON, R. S., *see* Nakagawa, Y. *et al.*
- STEINOLFSON, R. S., *see* Tachi, T. *et al.*
- STEIN, Robert F. / Generation of Acoustic and Gravity Waves by Turbulence in an Isothermal Stratified Atmosphere **2**, 385
- STELJES, J. F., *see* Hashim, A. *et al.*
- STELLMACHER, G. / Simultaneous Measurements of $\text{Ca}^+ \text{K}$, $\text{Ca}^+ \text{H}$, $\text{H}\alpha$, $\text{H}\beta$, and He D_3 Emission in Prominences **61**, 61
- STELLMACHER, G. / On the Line Intensity Ratios $E(\text{H}\alpha)/E(\text{D}_3)$ and $E(\text{H}\beta)/E(\text{D}_3)$ in Prominences **25**, 104
- STELLMACHER, G. and E. WIEHR / Magnetically Non-Split Lines in Penumbrae **17**, 21
- STELLMACHER, G. and E. WIEHR / Magnetically Non-Split Lines in Faculae **18**, 220
- STELLMACHER, G. and E. WIEHR / The Influence of the Sunspot Model on the Li-Abundance **21**, 96
- STELLMACHER, G. and E. WIEHR / On the Branching in the Emission Relations of Ca^+ in Prominences **71**, 299
- STELLMACHER, G., *see* Koutchmy, S.
- STELLMACHER, G., *see* Wiehr, E. *et al.*
- STELZRIED, C. T., G. S. LEVY, T. SATO, W. V. T. RUSCH, J. E. OHLSON, K. H. SCHATTEN, and J. M. WILCOX / The Quasi-Stationary Coronal Magnetic Field and Electron Density as Determined from a Faraday Rotation Experiment **14**, 440
- STELZRIED, C. T., *see* Bird, M. K. *et al.*
- STENCEL, R. E. / Limb Emission Lines near Solar H and K: $\lambda\lambda 3900$ to 4000 \AA **33**, 59 (*Research Note*)
- STENCEL, R. E., *see* Canfield, R. C. *et al.*
- STENFLO, Jan Olof / A New Type of Magnetograph **3**, 482
- STENFLO, Jan Olof / The Magnetoheliograph **6**, 476
- STENFLO, Jan Olof / A Mechanism for the Build-up of Flare Energy **8**, 115
- STENFLO, Jan Olof / The Zeeman Effect for Weak Magnetic Fields **8**, 260
- STENFLO, J. O. / The Polar Magnetic Fields of July and August 1968 **13**, 42
- STENFLO, J. O. / Hale's Attempts to Determine the Sun's General Magnetic Field **14**, 263
- STENFLO, J. O. / The Coronal and Interplanetary Magnetic Fields at the Time of the Solar Eclipse of 7 March, 1970 **21**, 260
- STENFLO, J. O. / Evolution of Solar Magnetic Fields over an 11-Year Period **23**, 307

- STENFLO, J. O. / Magnetic-Field Structure of the Photospheric Network **32**, 41
- STENFLO, J. O. / Differential Rotation and Sector Structure of Solar Magnetic Fields **36**, 495
- STENFLO, J. O. / Observations of Resonance Polarization in Ca I $\lambda 4227$ **37**, 31
- STENFLO, J. O. / A Model of the Supergranulation Network and of Active-Region Plages **42**, 79
- STENFLO, J. O. / The Hanle Effect and the Diagnostic of Turbulent Magnetic Fields in the Solar Atmosphere **80**, 209
- STENFLO, J. O. / Measurements of Magnetic Fields and the Analysis of Stokes Profiles **100**, 189 (*Invited Review*)
- STENFLO, J. O. and J. W. HARVEY / Dependence of the Properties of Magnetic Fluxtubes on Area Factor or Amount of Flux **95**, 99
- STENFLO, J. O., D. DRAVINS, N. WILHBORG, A. BRUNS, V. K. PROKOF'EV, I. A. ZHITNIK, H. BIVEROT, and L. STENMARK / Search for Spectral Line Polarization in the Solar Vacuum Ultraviolet **66**, 13
- STENFLO, J. O., *see* Beckers, J. M.
- STENFLO, J. O., *see* Bhatnagar, A.
- STENFLO, J. O., *see* Frazier, E. N.
- STENFLO, J. O., *see* Howard, R.
- STENFLO, J. O., *see* Kotov, V. A.
- STENFLO, J. O., *see* Pålsgård, G.
- STENMARK, L., *see* Stenflo, J. O. *et al.*
- STEPANOV, A. V., *see* Meerson, B. I. *et al.*
- STEPANOV, A. V., *see* Zaitsev, V. V.
- STEPANOV, A. V., *see* Zaitsev, V. V.
- STEPANOV, A. V., *see* Zaitsev, V. V. *et al.*
- STEPANOV, A. V., *see* Zaitsev, V. V. *et al.*
- STEPANOV, V. E., *see* Bappu, M. K. V.
- STEPANYAN, N., *see* Severny, A.
- STEPHENS, S. A., *see* Anand, K. C.
- STERNLIEB, A., *see* Cuperman, S.
- STERNLIEB, A., *see* Roelof, E. C. *et al.*
- STETTLE, P., J. RAST, F. K. KNEUBÜHL, and E. A. MÜLLER / Far-Infrared Solar Brightness Measured with a Balloon-Borne Lamellar-Grating Interferometer **40**, 337
- STEVENS, G. A., *see* Böhme, A. *et al.*
- STEVENS, R. J., *see* Berger, R. A. *et al.*
- STEWART, J. N., *see* Olsen, K. H. *et al.*
- STEWART, R. T. / Harmonic Ratios of Inverted-U Type III Bursts **39**, 451
- STEWART, R. T. / An Example of a Fundamental Type IIIb Radio Burst **40**, 417 (*Research Note*)
- STEWART, R. T. / Source Heights of Metre Wavelength Bursts of Spectral Types I and III **50**, 437
- STEWART, R. T. / Relationship between Type III-V Radio and Hard X-Ray Bursts **58**, 121
- STEWART, R. T. / Homologous Type II Radio Bursts and Coronal Transients **92**, 343
- STEWART, R. T. / Association of Type II Solar Radio Bursts with Coronal Structures above H α Filament Channels **94**, 379
- STEWART, R. T. / Solar Noise Storms and Magnetic Sector Structures **96**, 381
- STEWART, R. T. and J. VORPAHL / Radio and Soft X-Ray Evidence for Dense Non-Potential Magnetic Flux Tubes in the Solar Corona **55**, 111
- STEWART, R. T. and N. R. LABRUM / Meter-Wavelength Observations of the Solar Radio Burst Storm of August 17-22, 1968 **27**, 192
- STEWART, R. T. and K. V. SHERIDAN / Evidence of Type II and Type IV Solar Radio Emission from a Common Flare-Induced Shock Wave **12**, 229
- STEWART, R. T., T. W. COLE, C. F. ATTWOOD, and C. J. SMITH / Colour Display for Culgoora Solar Radio Spectrograph **71**, 3 (*Research Note*)
- STEWART, R. T., R. A. HOWARD, F. HANSEN, T. GERGELY, and M. KUNDU / Observations of Coronal Disturbances from 1 to 9 R_{\odot} . II: Second Event of 1973, January 11 **36**, 219
- STEWART, R. T., M. K. MCCABE, M. J. KOOMEN, R. T. HANSEN, and G. A. DULK / Observations of Coronal Disturbances from 1 to 9 R_{\odot} . I: First Event of 1973, January 11 **36**, 203
- STEWART, R. T., *see* Dulk, G. A. *et al.*
- STEWART, R. T., *see* Gergely, T. E. *et al.*
- STEWART, R. T., *see* Hudson, H. S. *et al.*
- STEWART, R. T., *see* Robinson, R. D.
- STEWART, R. T., *see* Robinson, R. D. *et al.*
- STEWART, R. T., *see* Švestka, Z. *et al.*
- STEWART, R. T., *see* Švestka, Z. *et al.*
- STIBER, G., *see* Öhman, Y.
- STIMETS, R. W. and C. LONDONO / Rotational Modulation of Ca K Flux Ratio and Sunspot Number **76**, 167
- STIX, M. / Theory of the Solar Cycle **74**, 79
- STIX, M. and H. WÖHL / The Center-to-Limb Variation of the Photospheric Wave Spectrum **37**, 63
- STIX, M. and E. WIEHR / On the Solar Magnetic 'Monopole' **37**, 493 (*Research Note*)
- STIX, M., *see* Altschuler, M. D. *et al.*
- STIX, M., *see* Knölker, M.
- ST. JOHN, D. E., *see* Marriott, R. T. *et al.*
- STOJANOVA, M. N., *see* Krat, V. A.
- STONE, R. G. and J. FAINBERG / A U-Type Solar Radio Burst Originating in the Outer Corona **20**, 106
- STONE, R. G. and J. FAINBERG / Radio Evidence for an Expanding Arch beyond 20 Solar Radii **42**, 179 (*Research Note*)

- STONE, R. G., *see* Alexander, J. K.
 STONE, R. G., *see* Cane, H. V. *et al.*
 STONE, R. G., *see* Evans, Larry G. *et al.*
 STONE, R. G., *see* Evans, L. G. *et al.*
 STONE, R. G., *see* Fainberg, J.
 STONE, R. G. *see* Sakurai, K.
 STOPA, M. P., *see* Raymond, J. C. *et al.*
 STOYANOVA, M. N. / Vertical Structure of Plages **15**, 349
 STRACHAN, P., *see* Flett, A. M. *et al.*
 STRAKA, R. M. / Spectral Radio Observations of a Solar Eclipse **21**, 469
 STRAKA, R. M., M. D. PAPAGIANNIS, and J. A. KOGUT / Study of a Filament with a Circularly Polarized Beam at 3.8 cm **45**, 131
 STRAKA, R. M., *see* Mayfield, E. B. *et al.*
 STRAUSS, F. M., P. KAUFMANN, and R. OPPER / Five Minute Microwave Solar Oscillations **67**, 83
 STRAUSS, F. M., *see* Kandel, R. S. *et al.*
 STRAUSS, F. M., *see* Kaufmann, P. *et al.*
 STRAUSS, F. M., *see* Kaufmann, P. *et al.*
 STRAUSS, F. M., *see* Kaufmann, P. *et al.*
 STRONG, K. T., A. O. BENZ, B. R. DENNIS, J. W. LEIBACHER, R. MEWE, A. I. POLAND, J. SCHRIJVER, G. SIMNETT, J. B. SMITH, JR., and J. SYLWESTER / A Multiwavelength Study of a Double Impulsive Flare **91**, 325
 STRONG, K. T., *see* Acton, L. W. *et al.*
 STRONG, K. T., *see* De Jager, C. *et al.*
 STRONG, K. T., *see* Schmahl, E. J. *et al.*
 STUIVER, M. and P. D. QUAY / A 1600 Year Long Record of Solar Change Derived from Atmospheric ^{14}C Levels **74**, 479
 STURGIS, E. A., *see* Lopresto, J. C. *et al.*
 STURIALE, M. L., *see* Godoli, G. *et al.*
 STURROCK, P. A. / A Classification of Magnetic Field Configurations Associated with Solar Flares **23**, 438
 STURROCK, P. A. / An Overview of the Energy-Flow Problem in Flares (Concluding Remarks) **53**, 299
 STURROCK, P. A. and J. W. KNIGHT / The Relevance of Solar Flares to Astrophysics **47**, 401 (*Invited Review*)
 STURROCK, P. A. and Sheldon M. SMITH / Magnetic-Field Structure Associated with Coronal Streamers **5**, 87
 STURROCK, P. A., P. J. BAUM, J. M. BECKERS, C. E. NEWMAN, E. R. PRIEST, H. ROSENBERG, D. F. SMITH, and D. G. WENTZEL (eds.) / Report on the Solar Physics - Plasma Physics Workshop, Held at Stanford University, 17-20 September 1974 **46**, 411
 STURROCK, P. A., P. KAUFMANN, R. L. MOORE, and D. F. SMITH / Energy Release in Solar Flares **94**, 341
 STURROCK, P. A., *see* Antiochos, S. K.
 STURROCK, P. A., *see* Dingle, L. A. *et al.*
 STURROCK, P. A., *see* Emslie, A. G.
 STURROCK, P. A., *see* Fung, P. C. W. *et al.*
 STURROCK, P. A., *see* Knight, J. W. *et al.*
 STURROCK, P. A., *see* Knight, J. W. *et al.*
 SUBRAMANIAN, K. R., V. KRISHAN, and CH. V. SASTRY / On the Correlation between Exciter Duration and Decay Constant of Solar Decimeter Type III Radio Bursts **70**, 375
 SUBRAMANIAN, K. R., *see* Krishan, V. *et al.*
 SU-CUAN, LI and CAO TIAN-JUN / Positional Measurements on the Eruptive Prominence of 27 April and Comparison with the X-Ray Sources **86**, 197
 SUDAN, R. N., *see* Kuckes, A. F.
 SUEMATSU, Y. / Mass Motions Due to Shock Propagations along Low-Lying Loops in the Solar Atmosphere. On the Formation of Fibrils **98**, 67
 SUEMATSU, Y., K. SHIBATA, T. NISHIKAWA, and R. KITAI / Numerical Hydrodynamics of the Jet Phenomena in the Solar Atmosphere. I: Spicules **75**, 99
 SUEMATSU, Y., *see* Kanno, M. *et al.*
 SUEMATSU, Y., *see* Shibata, K.
 SUEMATSU, Y., *see* Shibata, K. *et al.*
 SUEMOTO, Z. / An Empirical, Statistical Model for the Formation of the Cores of Chromospheric Fraunhofer Lines **54**, 3
 SUEMOTO, Z., *see* White, O. R.
 SUESS, S. T. / Planetary Waves on the Sun? **18**, 172
 SUESS, S. T. / Polar Coronal Plumes **75**, 145
 SUESS, S. T. and G. W. LOCKWOOD / Correlated Variations of Planetary Albedos and Coincident Solar-Interplanetary Variations **68**, 393
 SUESS, S. T. and S. F. NERNEY / Solar Wind: the Quasi-Radial Approximation and Its Limitations **40**, 487
 SUESS, S. T., *see* Nerney, S. F.
 SUFFOLK, G. C. J. and S. M. SMITH / Correlation of Photospheric Magnetic Field Strength with Coronal Brightness on 7 March, 1970 **21**, 481
 SULLIVAN, J. D., *see* Nolte, J. T. *et al.*
 SULLIVAN, J. D., *see* Nolte, J. T. *et al.*
 SULLIVAN, Woodruff T., III, *see* Staelin, David H.
 SUMMERS, D. / On the Collisional Theory of the Anisotropic Solar Wind Plasma **56**, 429
 SUMMERS, D. / Flow-Tube Dynamics and Coronal Holes **85**, 93 (*Research Note*)
 SUOZZO, R. J., *see* Parkinson, J. H. *et al.*
 SURI, A. N., E. L. CHUPP, D. J. FORREST, and C.

- REPPIN / Observations of Solar Gamma Ray Continuum between 360 keV and 7 MeV on August 4, 1972 **43**, 415
- SUZUKI, I. and K. KAWABATA / Relation between Hard X-Ray Spectra and Electron Energy Spectra **86**, 253
- SUZUKI, I., K. KAWABATA, and H. OGAWA / Interferometer Observations of the Solar Brightness Distribution at 8.6 mm Wavelength **46**, 205
- SUZUKI, I., *see* Fukada, Y. *et al.*
- SUZUKI, I., *see* Kawabata, K. *et al.*
- SUZUKI, I., *see* Kawamura, K. *et al.*
- SUZUKI, S. / Use of Colour to Display the Circular Polarization in Solar Dynamic Spectra **38**, 3
- SUZUKI, S. / On the Coronal Source Regions of U Bursts **57**, 415
- SUZUKI, T., *see* Kosugi, T. *et al.*
- SVALGAARD, L. and J. M. WILCOX / Long Term Evolution of Solar Sector Structure **41**, 461
- SVALGAARD, L. and J. M. WILCOX / The Hale Solar Sector Boundary **49**, 177
- SVALGAARD, L., J. M. WILCOX, and T. S. DUVALL / A Model Combining the Polar and the Sector Structured Solar Magnetic Fields **37**, 157
- SVALGAARD, L., J. M. WILCOX, PH. H. SCHERRER, and R. HOWARD / The Sun's Magnetic Sector Structure **45**, 83
- SVALGAARD, L., TH. L. DUVALL, JR., and PH. H. SCHERRER / The Strength of the Sun's Polar Fields **58**, 225
- SVALGAARD, L., *see* Antonucci, E.
- SVALGAARD, L., *see* Duvall, T. L., Jr.
- SVALGAARD, L., *see* Duvall, T. L., Jr., *et al.*
- SVALGAARD, L., *see* Heath, D. F. *et al.*
- SVALGAARD, L., *see* Scherrer, Ph. H., *et al.*
- SVALGAARD, L., *see* Wilcox, J. M.
- SVEEN, O. P., *see* Elgaroy, Ø.
- SVENSSON, L. Å. / Predicted Wavelengths of Coronal Transitions in the Configurations $3s^23p^2$, $3s^23p^3$ and $3s^23p^4$ **18**, 232
- SVENSSON, L. Å., J. O. EKBERG, and B. EDLÉN / The Identification of Fe IX and Ni XI in the Solar Corona **34**, 173
- ŠVESTKA, Z. / On Long-Term Forecasts of Proton Flares **4**, 18
- ŠVESTKA, Z. / Effects associated with the Sector Boundary Crossing on July 8, 1966 **4**, 361
- ŠVESTKA, Z. / Comment on the Note by Friedman and Hamberger **8**, 400 (*Research Note*)
- ŠVESTKA, Z. / Solar Research at the Ondřejov Observatory **12**, 332 (*Report from Solar Institute*)
- ŠVESTKA, Z. / The Phase of Particle Acceleration in the Flare Development **13**, 471
- ŠVESTKA, Z. / On the Flux of Neutrons from Flares **19**, 202
- ŠVESTKA, Z. / Spectral Analysis of Highly Inhomogeneous Chromospheric Flares **24**, 154
- ŠVESTKA, Z. / The H α Flare as a Secondary Product of a Coronal Instability **31**, 389
- ŠVESTKA, Z. / What Should be Observed on the Sun **47**, 375 (*Invited paper*)
- ŠVESTKA, Z. / Introductory Talk **53**, 221
- ŠVESTKA, Z. / Revivals of a Coronal Arch **94**, 171
- ŠVESTKA, Z. and L. FRITZOVÁ-ŠVESTKOVÁ / Electro Density in Flares. I: Discussion of the Half-width Method **2**, 75
- ŠVESTKA, Z. and L. FRITZOVÁ-ŠVESTKOVÁ / Type I Radio Bursts and Particle Acceleration **36**, 417
- ŠVESTKA, Z. and R. HOWARD / Transient Brightenings of Interconnecting Loops. Morphology of the Sudden Brightenings **63**, 297
- ŠVESTKA, Z. and R. HOWARD / Transient Brightenings of Interconnecting Loops. II: Dynamics of the Brightened Loops **71**, 349
- ŠVESTKA, Z. and G. POLETTI / Hard X-Ray Images of Possible Reconnection in the Flare of 21 May, 1980 **97**, 113
- ŠVESTKA, Z. and A. SHADEE / Pre- and Post-Flare X-Ray Variations in Active Regions **86**, 267
- ŠVESTKA, Z. and P. SIMON / Proton Flare Project, 1966. Summary of the August/September Particle Events in the McMath Region 8461 **10**, 3 (*Invited Review Paper*)
- ŠVESTKA, Z., B. R. DENNIS, M. PICK, A. RAOULT, C. G. RABLEY, R. T. STEWART, and B. E. WOODGATE / Unusual Coronal Activity Following the Flare of 6 November 1980 **80**, 143
- ŠVESTKA, Z., H. W. DODSON-PRINCE, S. F. MARTIN, O. C. MOHLER, R. L. MOORE, J. T. NOLTE, and R. D. PETRASSO / Study of the Post-Flare Loops on 29 July 1973. IV: Revision of T and n_e Values and Comparison with the Flare of 21 May 1980 **78**, 271
- ŠVESTKA, Z., L. FRITZOVÁ-ŠVESTKOVÁ, J. T. NOLTE, H. W. DODSON-PRINCE, and E. R. HEDEMAN / Low-Energy Particle Events Associated with Sector Boundaries **50**, 491
- ŠVESTKA, Z., A. S. KRIEGER, R. C. CHASE, and R. HOWARD / Transequatorial Loops Interconnecting McMath Regions 12472 and 12474 **52**, 69
- ŠVESTKA, Z., J. SCHRIJVER, B. SOMOV, B. R. DENNIS, B. E. WOODGATE, E. FÜRST, W. HIRTH, L. KLEIN, and A. RAOULT / Purely Coronal Flare-Like Variations **85**, 313
- ŠVESTKA, Z., R. T. STEWART, P. HOYNG, W. VAN

- TEND, L. W. ACTON, A. H. GABRIEL, C. G. RAPLEY, A. BOELEEE, E. C. BRUNER, C. DE JAGER, H. LAFLEUR, G. NELSON, G. M. SIMNETT, H. F. VAN BEEK, and W. J. WAGNER / Observations of a Post-Flare Radio Burst in X-Rays **75**, 305
- ŠVESTKA, Z., G. VAN HOVEN, P. HOYNG, and M. KUPERUS / Brief Report of the Joint Discussion Meeting of IAU Commissions 10, 12, 14, and 44 on the Solar Maximum Year in Montreal, Canada **67**, 379
- ŠVESTKA, Z., *see* De Feiter, L. D.
- ŠVESTKA, Z., *see* De Jager, C.
- ŠVESTKA, Z., *see* De Jager, C. *et al.*
- ŠVESTKA, Z., *see* Dwivedi, B. N. *et al.*
- ŠVESTKA, Z., *see* Fritzová-Švestková, L.
- ŠVESTKA, Z., *see* Fritzová-Švestková, L.
- ŠVESTKA, Z., *see* Fritzová-Švestková, L.
- ŠVESTKA, Z., *see* Fritzová-Švestková, L. *et al.*
- ŠVESTKA, Z., *see* Howard, R.
- ŠVESTKA, Z., *see* Howard, R.
- ŠVESTKA, Z., *see* Howard, R. *et al.*
- ŠVESTKA, Z., *see* Kattenberg, A. *et al.*
- ŠVESTKA, Z., *see* Nolte, J. T. *et al.*
- ŠVESTKA, Z., *see* Petrasso, R. D. *et al.*
- ŠVESTKA, Z., *see* Rust, D. M.
- ŠVESTKA, Z., *see* Schadee, A. *et al.*
- ŠVESTKA, Z., *see* Spicer, D. S.
- SWAMY, K. S. KRISHNA / Equivalent Width of Molecular Lines in Stars. I: Lyman and Werner Bands of H₂ in the Solar Atmosphere **41**, 301
- SWANSON, P. N. / The Radio Radius of the Sun at Millimeter and Centimeter Wavelengths **32**, 77
- SWANSON, P. N. and J. P. HAGEN / The Radial Brightness Distribution of the Sun at 3.2 mm as Determined from the June 30, 1973 Total Solar Eclipse and a Reanalysis of the March 7, 1970 Total Solar Eclipse **43**, 57
- SWANSON, P. N., F. L. WEFER, W. J. DECKER, and J. P. HAGEN / Further Evidence for a Complex Limb Structure in the Solar Radial Brightness Distribution at mm Wavelengths **28**, 419
- SWANSON, P. N., *see* Hagan, J. P. *et al.*
- SWANSON, P. N., *see* Kuseki, R. A.
- SWARTZ, M., *see* Kastner, S. O. *et al.*
- SWARTZ, M., *see* Kastner, S. O. *et al.*
- SWARTZ, M., *see* Mason, H. E. *et al.*
- SWARTZ, M., *see* Neupert, W. M.
- SWARTZ, M., *see* Neupert, W. M. *et al.*
- SWARUP, G. and V. K. KAPAH / A Simple Image Forming Technique Suitable for Multifrequency Observations of Solar Radio Bursts **14**, 404
- SWARZTRAUBER, P. N., *see* Altschuler, M. D. *et al.*
- SWENSSON, J. W. / Comments on Forbidden Sulphur I Lines in the Solar Spectrum **9**, 31 (*Research Note*)
- SWENSSON, J. W. / A Search for Rhenium Lines in the Fraunhofer Spectrum **13**, 25
- SWIHART, Th. L., *see* Margrave, Th. E.
- SWIHART, Thomas L., *see* Margrave, Jr., Thomas E.
- SWINGS, J. P., D. L. LAMBERT and N. GREVESSE / Forbidden Sulphur I Lines in the Solar Spectrum **6**, 3
- SWINGS, J. P., *see* Grevesse, N.
- SWINGS, J. P., *see* Lambert, D. L.
- SWITZER, P., *see* Fung, P. C. W. *et al.*
- ŠÝKORA, J. / Skalnaté Pleso Astronomical Institute **4**, 122 (*Report from Solar Institute*)
- ŠÝKORA, J. / Time and Shape Changes of the Supergranular Network **13**, 292
- ŠÝKORA, J. / The Longitudinal Distribution of the Green Corona Activity **18**, 72
- SYKORA, J., *see* Badalyan, O. G. *et al.*
- SYLWESTER, B., *see* Jakimiec, J. *et al.*
- SYLWESTER, B., *see* Korneev, V. V. *et al.*
- SYLWESTER, J., J. SCHRIJVER, and R. MEWE / Multitemperature Analysis of Solar X-Ray Line Emission **67**, 285
- SYLWESTER, J. A., *see* Aglizki, E. V. *et al.*
- SYLWESTER, J., *see* Bromboszcz, G. *et al.*
- SYLWESTER, J., *see* Korneev, V. V. *et al.*
- SYLWESTER, J., *see* Krutov, V. V. *et al.*
- SYLWESTER, J., *see* Siarkowski, M. *et al.*
- SYLWESTER, J., *see* Siarkowski, M. *et al.*
- SYLWESTER, J., *see* Strong, K. T. *et al.*
- SYROVATSKII, S. I. / Basic Questions in Our Understanding of Flares **53**, 247
- SYROVATSKII, S. I. / On the Time Evolution of Force-Free Fields **58**, 89
- SYROVATSKII, S. I. / 'In Memoriam' by S. L. MANDEL'STAM and B. V. SOMOV **67**, 3
- SYROVATSKII, S. I. / Model for Flare Loops, Fast Motions, and Opening of Magnetic Field in the Corona **76**, 3
- SYROVATSKII, S. I., *see* Bobrova, N. A.
- SYROVATSKII, S. I., *see* Kuznetsov, V. D.
- SYROVATSKII, S. I., *see* Platov, Yu. V. *et al.*
- SYROVATSKII, S. I., *see* Shmeleva, O. P.
- SYROVATSKII, S. I., *see* Somov, B. V.
- SYROVATSKII, S. I., *see* Somov, B. V.
- SYROVATSKII, S. I., *see* Somov, B. V.
- SYROVATSKII, S. I., *see* Somov, B. V. *et al.*
- SY, W. N.-C. / On a Suggested Explanation for Line Structures Observed in Some Wide-Band Bursts **34**, 427
- TACHI, T., R. S. STEINOLFSON, and G. VAN HOVEN / Radiative and Reconnection Instabilities: Compressible and Viscous Effects **95**, 119
- TAGLIAFERRI, G. L., *see* Landini, M.

- TAGLIAFERRI, G. L., *see* Landini, M. *et al.*
- TAGLIAFERRI, G. L., *see* Monsignori Fossi, B. C.
- TAJIMA, T., *see* Sakai, J. *et al.*
- TAJIMA, T., *see* Wagner, J. S. *et al.*
- TAKAHASHI, F., *see* Sofue, Y. *et al.*
- TAKAKURA, Tatsuo / Theory of Solar Bursts **1**, 304 (*Invited Review*)
- TAKAKURA, TATSUO / Theory of Solar Bursts (*Errata*) **3**, 624 (**1**, 304)
- TAKAKURA, Tatsuo / Interpretation of Time Characteristics of Solar X-Ray Bursts referring to Associated Microwave Bursts **6**, 133
- TAKAHASHI, Kozo / On the Relation between the Solar Activity Cycle and the Solar Tidal Force Induced by the Planets **3**, 598
- TAKAHASHI, Kozo, *see* Tsuchiya, Atsushi
- TAKAKURA, T. / Acceleration of Electrons and Solar Flares Due to Quasi-Static Electric Field **19**, 186
- TAKAKURA, T. / The Self-Absorption of Gyro-Synchrotron Emission in a Magnetic Dipole Field: Microwave Impulsive Burst and Hard X-Ray Burst **26**, 151
- TAKAKURA, T. / Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. II: Semi-Analytical Approach **52**, 429
- TAKAKURA, T. / Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. III: Radio Emissions from Plasma Waves **61**, 143
- TAKAKURA, T. / Dynamics of a Cloud of Fast Electrons Travelling through the Plasma. IV: Simulation for Type III Solar Radio Bursts **61**, 161
- TAKAKURA, T. / Low Frequency Turbulence in the Solar Corona and Fundamental Radiation of Type III Solar Radio Burst **62**, 375
- TAKAKURA, T. / Numerical Simulation of Type III Solar Radio Bursts Caused by High-Density Electron Beam **62**, 383
- TAKAKURA, T. / Fundamental Wave of Type III Solar Radio Bursts and Whistler Waves **75**, 277
- TAKAKURA, T. / Numerical Simulation of Type III Solar Radio Bursts on Meter- and Hectometer-Waves **78**, 141
- TAKAKURA, T. / Steady Models for the Hard X-Ray Loops in the Solar Corona **91**, 311
- TAKAKURA, T. and E. SCALISE, Jr. / Gyro-Synchrotron Emission in a Magnetic Dipole Field for the Application to the Center-to-Limb Variation of Microwave Impulsive Bursts **11**, 434
- TAKAKURA, T. and H. SHIBAHASHI / Dynamics of a Cloud of Fast Electrons Travelling through the Plasma **46**, 323
- TAKAKURA, T. and S. YOUSEF / The Third Harmonic of Type III Solar Radio Bursts **36**, 451
- TAKAKURA, T. and S. YOUSEF / Type IIIb Radio Bursts: 80 MHz Source Position and Theoretical Model **40**, 421
- TAKAKURA, T., S. S. DEGAONKAR, K. OHKI, T. KOSUGI, and S. ENOME / Long Time Delay between the Peaks of Intense Solar Hard X-Ray and Microwave Bursts **89**, 379
- TAKAKURA, T., Y. NAITO, and K. OHKI / Time Profile of Type III Bursts **41**, 153
- TAKAKURA, T., K. OHKI, N. SHIBUYA, M. FUJII, M. MATSUOKA, S. MIYAMATO, J. NISHIMURA, M. ODA, Y. OGAWARA, and S. OTA / The Location and Size of a Solar Hard X-Ray Burst on September 27, 1969 **16**, 454
- TAKAKURA, T., K. OHKI, S. TSUNETA, and N. NITTA / Hard X-Ray Images of Impulsive Bursts **86**, 323
- TAKAKURA, T., K. OHKI, T. SAKURAI, J. L. WANG, J. Y. XUAN, S. C. LI, and R. Y. ZHAO / Hard X-Ray Imaging of a Solar Gradual Hard X-Ray Burst on April 1, 1981 **94**, 359
- TAKAKURA, Tatsuo, Yutaka UCHIDA and Keizo KAI / Time Variation of the Spectrum of Gyro-Synchrotron Emission from the Sun **4**, 45
- TAKAKURA, TATSUO, YUTAKA UCHIDA, and KEIZO KAI / Time Variation of the Spectrum of Gyro-Synchrotron Emission from the Sun (*Errata*) **6**, 336 (**4**, 45)
- TAKAKURA, T., *see* Costa, J. E. R. *et al.*
- TAKAKURA, T., *see* Degaonkar, S. S. *et al.*
- TAKAKURA, T., *see* Nitta, N. *et al.*
- TAKAKURA, T., *see* Ohki, K. *et al.*
- TAKAKURA, T., *see* Tsuneta, S. *et al.*
- TAKAYANAGI, A., *see* Kai, K.
- TAKUSHI, J. T., *see* Landman, D. A.
- TALLANT, Paul E., *see* Beckers, Jacques M.
- TALLANT, P. E. / A Solar Flare Videometer **11**, 263
- TALON, R., *see* Chambon, G. *et al.*
- TALON, R., *see* Hurley, K. *et al.*
- TAMENAGA, T., *see* Kubota, J. *et al.*
- TANAKA, H. / Toyokawa Observatory **1**, 295 (*Report from Solar Institute*)
- TANAKA, H. and SHINZO ÉNOMÉ / Observations of a Solar Radio Burst on September 27, 1969 **17**, 408 (*Research Note*)
- TANAKA, H. and S. ÉNOMÉ / The Microwave Structure of Coronal Condensations and Its Relation to Proton Flares **40**, 123
- TANAKA, H., J. P. CASTELLI, A. E. COVINGTON, A. KRÜGER, T. L. LANDECKER, and A. TLAMICHA / Absolute Calibration of Solar Radio Flux Density in the Microwave Region **29**, 243
- TANAKA, Haruo, *see* Énomé, Shinzo
- TANAKA, K. / Evolution of Fibrils with Special

- Reference to Flare Activity **47**, 247
- TANAKA, K. / Measurement and Analysis of Magnetic Field Variation during a Class 2b Flare **58**, 149
- TANAKA, K. and Y. NAKAGAWA / Force-Free Magnetic Fields and Flares of August 1972 **33**, 187
- TANAKA, K., N. NITTA, K. AKITA, and T. WATANABE / Interpretation of the Soft X-Ray Spectra from HINOTORI **86**, 91
- TANAKA, K., *see* Akita, K. *et al.*
- TANAKA, K., *see* Bhattacharjee, A.
- TANAKA, K., *see* Hiei, E. *et al.*
- TANAKA, K., *see* Hirayama, T. *et al.*
- TANAKA, K., *see* Watanabe, T. *et al.*
- TANAKA, K., *see* Zirin, H.
- TANAKA, K., *see* Zirin, H.
- TANAKA, R., *see* Kanno, M.
- TANAKA, Y. / Introduction to HINOTORI **86**, 3
- TANAKA, Y., *see* Fukada, Y. *et al.*
- TANDBERG-HANSSSEN, E. / Comments on a Flare of September 20, 1966 **2**, 98
- TANDBERG-HANSSSEN, E. / Magnetic Fields in Quiescent Prominences **15**, 359
- TANDBERG-HANSSSEN, E. and U. ANZER / The Orientation of Magnetic Fields in Quiescent Prominences **15**, 158
- TANDBERG-HANSSSEN, E., R. T. HANSEN, and A. C. RIDDLE / A Distinctive Type of Ascending Prominence - 'Fountain' **44**, 417
- TANDBERG-HANSSSEN, E. and J. MCKIM MALVILLE / Magnetic Fields in Flares and Active Prominences. II: The Field Configuration in some Active Prominences **39**, 107
- TANDBERG-HANSSSEN, E., S. F. MARTIN, and R. T. HANSEN / Dynamics of Flare Sprays **65**, 357
- TANDBERG-HANSSSEN, E., P. KAUFMANN, E. J. REICHMANN, D. L. TEUBER, R. L. MOORE, L. E. ORWIG, and H. ZIRIN / Observation of the Impulsive Phase of a Simple Flare **90**, 41
- TANDBERG-HANSSSEN, E., E. REICHMAN, and B. WOODGATE / Behavior of Transition-Region Lines during Impulsive Solar Flares **86**, 159
- TANDBERG-HANSSSEN, E., *see* Anzer, U.
- TANDBERG-HANSSSEN, E., *see* Cheng, Chung-Chieh *et al.*
- TANDBERG-HANSSSEN, E., *see* deLoach, A. C. *et al.*
- TANDBERG-HANSSSEN, E., *see* Engvold, O. *et al.*
- TANDBERG-HANSSSEN, E., *see* Hagyard, M. J. *et al.*
- TANDBERG-HANSSSEN, E., *see* Hagyard, M. *et al.*
- TANDBERG-HANSSSEN, E., *see* Harvey, J. W.
- TANDBERG-HANSSSEN, E., *see* Henze, W., Jr. *et al.*
- TANDBERG-HANSSSEN, E., *see* Henze, W. *et al.*
- TANDBERG-HANSSSEN, E., *see* Kuperus, Max
- TANDBERG-HANSSSEN, E., *see* Malville, J. McKim
- TANDBERG-HANSSSEN, E., *see* McGuire, J. P. *et al.*
- TANDBERG-HANSSSEN, E., *see* Nagai, F. *et al.*
- TANDBERG-HANSSSEN, E., *see* Nakagawa, Y. *et al.*
- TANDBERG-HANSSSEN, E., *see* Poland, A. I.
- TANDBERG-HANSSSEN, E., *see* Poland, A. *et al.*
- TANDBERG-HANSSSEN, E. A., *see* Poland, A. I. *et al.*
- TANDBERG-HANSSSEN, E., *see* Riddle, A. C. *et al.*
- TANDBERG-HANSSSEN, E., *see* Saito, K.
- TANDBERG-HANSSSEN, E., *see* Schmieder, B. *et al.*
- TANDBERG-HANSSSEN, E., *see* Sheeley, N. R. *et al.*
- TANDBERG-HANSSSEN, E., *see* Smith, J. B., Jr. *et al.*
- TANDBERG-HANSSSEN, E., *see* Steinolfson, R. S.
- TANDBERG-HANSSSEN, E., *see* Teuber, D. *et al.*
- TANDBERG-HANSSSEN, E., *see* Woodgate, B. E. *et al.*
- TANDBERG-HANSSSEN, E., *see* Wu, S. T. *et al.*
- TANDON, J. N., *see* Deshpande, S. D.
- TANENBAUM, A. S., J. M. WILCOX, E. N. FRAZIER and R. HOWARD / Solar Velocity Fields: 5-Min Oscillations and Supergranulation **9**, 328
- TANENBAUM, A. S., *see* Howard, Robert
- TANENBAUM, A. S., *see* Wilcox, J. M. *et al.*
- TANG, F. / Umbral Flares **60**, 119 (*Research Note*)
- TANG, F. / Rotation Rate of High-Latitude Sunspots **69**, 399
- TANG, F. / Reversed-Polarity Regions **75**, 179
- TANG, F. / Flare Asymmetry as Seen in Offband H α Filtergrams **83**, 15
- TANG, F. / On the Origin of δ Spots **89**, 43
- TANG, F. and R. L. MOORE / Remote Flare Brightenings and Type III Reverse Slope Bursts **77**, 263
- TANG, F., R. HOWARD, and J. M. ADKINS / A Statistical Study of Active Regions 1967-1981 **91**, 75
- TANG, F., *see* Adams, W. M.
- TANG, F., *see* Moore, R. L.
- TANG, F., *see* Roy, J.-R.
- TANZI, E. G., *see* Dilworth, C. *et al.*
- TAPPERE, E. J., *see* Bray, R. J. *et al.*
- TAPPERE, E. J., *see* Bray, R. J. *et al.*
- TAPPERE, E. J., *see* Loughhead, R. E.
- TAPPERE, E. J., *see* Loughhead, R. E. *et al.*
- TAPPING, K. F. / Meter Wavelength Pulsating Bursts during the May 21, 1972, Solar Noise Storm **59**, 145
- TAPPING, K. F. / A Beam Ratio Technique for Microwave Observation of S-Component Sources **83**, 179
- TAPPING, K. F. / A Torsional Wave Model for Solar Radio Pulsations **87**, 177
- TARAFDAR, S. P., *see* Fox, P. W. *et al.*
- TARBELL, TH. D. and A. M. TITLE / Measurements of Solar Magnetic Fields by Fourier Transform Techniques. II: Saturated and

Blended Lines **47**, 563

- CARBELL, TH. D. and A. M. TITLE / Measurements of Magnetic Fluxes and Field Strengths in the Photospheric Network **52**, 13
- CARBELL, TH. D., *see* Title, A. M.
- CARNSTROM, G., *see* Rosenberg, H.
- CAVAKOL, R. K. and A. S. TWORKOWSKI / Redistribution of Energy by Vertical Oscillations in the Solar Atmosphere **71**, 203
- CAVAKOL, R. K., *see* Roxburgh, I. W.
- CAVASTSHERNA, K. S., *see* Krat, V. A. *et al.*
- CAYAL, S. S., *see* Keenan, F. P. *et al.*
- CAYAL, S. S., *see* Keenan, F. P. *et al.*
- CAYLOR, Harold E. / Sudden Commencement Associated Discontinuities in the Interplanetary Magnetic Field Observed by IMP 3 **6**, 320
- CAYLOR, R. G., *see* Kreplin, R. W.
- CAYLOR, W. R., *see* Beckers, J. M.
- CELNYUK-ADAMCHUK, V. V., *see* Kurochka, L. N.
- CEMNY, V. V., *see* D'Uston, C. *et al.*
- CEPLITSKAJA, R. B. / The Effect of Short-Periodic Oscillations in the Photosphere on the Spectral Line Profile **6**, 18
- CEPLITSKAYA, R. B. / On the Spatial Structure of a Penumbral **95**, 45
- CEPLITSKAJA, R. B. and S. A. EFENDIEVA / Width of Emission Cores of the Line K Ca II in Sunspots **28**, 369
- CEPLITSKAJA, R. B. and N. M. FIRSTOVA / Shapes and Centre-to-Limb Variation of the H and K Lines in Sunspot Umbrae **48**, 103
- CEPLITSKAJA, R. B. and S. A. EFENDIEVA / H and K Line in the Sunspot Umbra: a Source Function and Doppler Width **43**, 293
- CEPLITSKAJA, R. B., S. A. GRIGORYEVA (EFENDIEVA), and V. G. SKOCHILOV / On Physical Conditions in the Chromosphere above Sunspot Umbrae **56**, 293
- CEPLITSKAJA, R. B., *see* Krinberg, J. A.
- CEPLITSKAJA, R. B., *see* Turova, I. P. *et al.*
- CE POEL, H., *see* MacQueen, R. M. *et al.*
- CERNULLO, M., R. A. ZAPPALA, and F. ZUCCARELLO / The Age-Dependence of Photospheric Tracer Rotation **74**, 111
- TESKE, R. G. / Observation of the Solar Soft X-Ray Component; Study of its Relation to Transient and Slowly-Varying Phenomena Observed at Other Wavelengths **6**, 193
- TESKE, R. G. / Soft Solar X-Rays and Solar Activity. IV: Some Evidence for the Altitude of X-Ray Source Volumes in Solar Flares **17**, 181
- TESKE, R. G. / Soft Solar X-Rays and Solar Activity. III: Loop Prominences with Soft X-Ray Emission **17**, 76
- TESKE, R. G. / Soft Solar X-Rays and Solar Activity. V: Relation of the Course of Soft X-Ray Fluctuation to the Course of Solar Activity, 9 March 1967–18 May, 1968 **19**, 356
- TESKE, R. G. / Soft Solar X-Rays and Solar Activity. VI: Optical Identification of Activity Associated with X-Ray Background Fluctuations **21**, 146
- TESKE, R. G. / Soft Solar X-Rays and Solar Activity. VII: Observational Assessment of the Role of the Type III Acceleration Mechanism of Establishment of the Soft X-Ray Source Volume **24**, 434
- TESKE, R. G. / Power Spectra of Velocity Fluctuations in Plages **39**, 79
- TESKE, R. G. / Two-Dimensional Spatial Power Spectra of Photospheric Velocity Fluctuations **39**, 363
- TESKE, R. G. and G. H. ELSTE / Dependence of the Correlation of Small Scale Photospheric Structures Upon Resolution **62**, 241
- TESKE, R. G. and Roger J. THOMAS / Solar Soft X-Rays and Solar Activity. I: Relationships between Reported Flares and Radio Bursts, and X-Ray Bursts **8**, 348
- TESKE, R. G., P. E. HODGE, and S. P. WORDEN / Note on the Energy Scale of the Michigan OSO III Ion Chamber **22**, 235
- TESKE, R. G., *see* Burl, J. B. *et al.*
- TESKE, R. G., *see* Elste, G.
- TESKE, R. G., *see* Linsky, J. L. *et al.*
- TESKE, R. G., *see* Nauer, D. J. *et al.*
- TESKE, R. G., *see* Psujek, C. J.
- TESKE, R. G., *see* Thomas, R. J.
- TESTERMAN, L., *see* Ayres, T. R.
- TESTERMAN, L., *see* Evans, J. C.
- TESTERMAN, L., *see* Holweger, H.
- TETRUASHVILI, E. I. / On 5694 Å Coronal Line Observations **39**, 387
- TETRUASHVILI, E. I. / The Results of Statistical Analysis of the Coronal Profiles above the Solar Active Regions **54**, 135 (*Research Note*)
- TETRUASHVILI, E. I., *see* Khetsuriani, Ts. S.
- TEUBER, D., E. TANDBERG-HANSSSEN, and M. J. HAGYARD / Computer Solutions for Studying Correlations between Solar Magnetic Fields and Skylab X-Ray Observations **53**, 97
- TEUBER, D. L., *see* Hannakam, L. *et al.*
- TEUBER, D. L., *see* Tandberg-Hanssen, E. *et al.*
- TEUBER, D., *see* Hagyard, M. J.
- TEUBER, D., *see* Hagyard, M. J. *et al.*
- TEUBER, D., *see* Hagyard, M. J. *et al.*
- THE RADIOHELIOGRAPH GROUP / The Mark III Nançay Radioheliograph **88**, 383
- THOMAS, J. H. / Solar Seeing and the Spatial Properties of the Five-Minute Oscillations **24**,

- THOMAS, J. H. and M. A. SCHEUER / Umbral Oscillations in a Detailed Model Umbra **79**, 19
- THOMAS, J. H., P. A. CLARK, and A. CLARK, Jr. / Trapped Gravity Waves and the Five-Minute Oscillations of the Solar Atmosphere **16**, 51
- THOMAS, J. H., *see* Nye, A. H.
- THOMAS, J. H., *see* Scheuer, M. A.
- THOMAS, R. J. and R. G. TESKE / Solar Soft X-Rays and Solar Activity. II: Soft X-Ray Emission during Solar Flares **16**, 431
- THOMAS, R. J., R. STARR, and C. J. CRANNEL / Expressions to Determine Temperatures and Emission Measures for Solar X-Ray Events from GOES Measurements **95**, 323
- THOMAS, R. J., *see* Chiuderi Drago, F. *et al.*
- THOMAS, R. J., *see* Nakada, M. P. *et al.*
- THOMAS, R. J., *see* Nakada, M. P. *et al.*
- THOMAS, R. J., *see* Neupert, W. M. *et al.*
- THOMAS, R. J., *see* Phillips, K. J. H. *et al.*
- THOMAS, R. J., *see* Teske, R. G.
- THOMAS, Roger J., *see* Teske, Richard G.
- THOMAS, R. N. / Suggested Interpretation of the Correlations in Intensity Fluctuations in the Lines Ca II H and K, Magnesium b, and Hydrogen H β **27**, 303 (*Research Note*)
- THOMAS, R. N., *see* Praderie, F.
- THOMAS, S. W., *see* Snider, J. L. *et al.*
- THOME, G. D., *see* Garriott, O. K.
- THORNE, R. M., *see* Marriott, R. T. *et al.*
- THORNTON, D. C., *see* Flett, A. M. *et al.*
- THUILLIER, G., P. C. SIMON, D. LABS, R. PASTIELS, and H. NECKEL / An Instrument to Measure the Solar Spectrum from 170 to 3200 nm on Board Spacelab **74**, 531
- THÜR, L., *see* Elwert, G. *et al.*
- TIAN-JUN, CAO, *see* Su-Cuan, Li
- TIKHOMIROV, YU. V., *see* Kobrin, M. M. *et al.*
- TIKHOMIROV, YU. V., *see* Zheleznyakov, V. V.
- TIMOTHY, A. F., A. S. KRIEGER, and G. S. VAIANA / The Structure and Evolution of Coronal Holes **42**, 135
- TIMOTHY, A. F., *see* Frost, K. J.
- TIMOTHY, A. F., *see* Krieger, A. S. *et al.*
- TIMOTHY, A. F., *see* Nolte, J. T. *et al.*
- TIMOTHY, A. F., *see* Poletto, G. *et al.*
- TIMOTHY, A. F., *see* Vaiana, G. S. *et al.*
- TIMOTHY, J. G., *see* Schmahl, E. J. *et al.*
- TINDO, I. P., V. D. IVANOV, S. L. MANDEL'STAM, and A. I. SHURYGHIN / On the Polarization of the Emission of X-Ray Solar Flares **14**, 204
- TINDO, I. P., V. D. IVANOV, S. L. MANDEL'STAM, and A. I. SHURYGHIN / New Measurements of the Polarization of X-Ray Solar Flares **24**, 429
- TINDO, I. P., V. D. IVANOV, B. VALNÍČEK, and M. A. LIVSHITS / Preliminary Interpretation of the Polarization Measurements Performed on 'Intercomos-4' during Three X-Ray Solar Flares **27**, 426
- TINDO, I. P., S. L. MANDEL'STAM, and A. I. SHURYGHIN / Further Polarization Measurements of the Solar Flare X-Ray Emission **32**, 469
- TINDO, I. P., A. I. SHURYGHIN, and W. STEFFEN / The Polarization of X-Ray Emission of Some Solar Flares in July 1974 **46**, 219
- TINDO, I. P., *see* Korneev, V. V. *et al.*
- TINKER, P. A., *see* Snider, J. L. *et al.*
- TINSLEY, H. D., *see* Woodgate, B. E. *et al.*
- TITLE, A. M. / Improvement of Birefringent Filters. I: Reduction of Scatter in Polaroid Materials **33**, 521 (*Research Note*)
- TITLE, A. M. / Sensitivity Variations of Silicon Vidicons **35**, 233
- TITLE, A. M. / Partial Polaroids in Birefringent Filters **38**, 523
- TITLE, A. M. / Effective Index of Calcite and Quartz **39**, 505 (*Research Note*)
- TITLE, A. M. and TH. D. TARBELL / Measurement of Solar Magnetic Fields by Fourier Transform Techniques. I: Unsaturated Lines **41**, 255
- TITLE, A. M., *see* Tarbell, Th. D.
- TITOV, V. S., *see* Somov, B. V.
- TLAMICHA, A. / The Spectrum of the Slowly Varying Component of Solar Radio Emission at Wavelengths of 3.3 mm–21 cm **5**, 377
- TLAMICHA, A. / No Evidence of Any Solar Limb Brightening in the Range of 3.5 mm–2 cm **10**, 150 (*Research Note*)
- TLAMICHA, A., *see* Garczyńska, I. N. *et al.*
- TLAMICHA, A., *see* Letfus, V.
- TLAMICHA, A., *see* Mercier, C. *et al.*
- TLAMICHA, A., *see* Tanaka, H. *et al.*
- TOFANI, G., *see* Falchi, A. D. *et al.*
- TOFANI, G., *see* Felli, M.
- TOFANI, G., *see* Felli, M. *et al.*
- TOFANI, G., *see* Felli, M. *et al.*
- TOICHI, T. / Thermal Properties of the Solar Wind Plasma **18**, 150
- TOMOZOV, V. M., *see* Altyntsev, A. T. *et al.*
- TÖNJES, K. and H. WÖHL / Motions and Lifetimes of the Penumbral Bright Grains in Sunspots **75**, 63
- TOOMRE, J., *see* Gough, D. O.
- TOOMRE, J., *see* Hill, F. *et al.*
- TOOMRE, J., *see* Latour, J. *et al.*
- TOOT, G. D., *see* Malville, J. M.
- TOPKA, K., R. MOORE, B. J. LABONTE, and R. HOWARD / Evidence for a Poleward Meridional Flow on the Sun **79**, 231

- TOPKA, K. P., *see* Wallenhorst, S. G.
- TORELLI, M., *see* Cacciani, A. *et al.*
- TORELLI, M., *see* Cacciani, A. *et al.*
- TORELLI, M., *see* Fortini, T.
- TORRICELLI-CIAMPONI, G., *see* Einaudi, G. *et al.*
- TOUSEY, R. and M. J. KOOMEN / The Relation between the White Light and XUV Coronas on 7 March, 1970 **21**, 401
- TOUSEY, R., J. D. F. BARTOE, J. D. BOHLIN, G. E. BRUECKNER, J. D. PURCELL, V. E. SCHERRER, N. R. SHEELEY, JR., R. J. SCHUMACHER, and M. E. VANHOOSIER / A Preliminary Study of the Extreme Ultraviolet Spectroheliograms from Skylab **33**, 265
- TOUSEY, R., *see* Bohlin, J. D. *et al.*
- TOUSEY, R., *see* Broussard, R. M. *et al.*
- TOUSEY, R., *see* Nicolas, K. R. *et al.*
- TOUSEY, R., *see* Sheeley, Jr., N. R. *et al.*
- TOUSEY, R., *see* Sheeley, N. R. *et al.*
- TOUSEY, R., *see* Simon, G. W. *et al.*
- TRAMIEL, L. J., *see* Lemen, J. R. *et al.*
- TREFFTZ, E., *see* Saha, H. P.
- TREGUER, L., *see* Cherki, G. *et al.*
- TREGUER, L., *see* Dilworth, C. *et al.*
- TRINKKELLER, B., *see* Krüger, A.
- TRIPATHI, B. M., *see* Gaur, V. P. *et al.*
- TRIPATHI, B. M., *see* Pande, M. C.
- TRIPP, D. A., *see* Nicolas, K. R. *et al.*
- TRISKA, P. and J. LAŠTOVIČKA / On the X-Ray Contr of the Ionospheric Absorption of HF Radio Waves **15**, 504 (*Research Note*)
- TRITAKIS, B. P. / A Solar Cycle Variation of the Interplanetary Magnetic Field Configuration **63**, 207
- TRITAKIS, B., *see* Moussas, X.
- TRIVEDI, N. B., *see* Kane, R. P.
- TROCHOUTSOS, P. C., *see* Sarris, E. T. *et al.*
- TROCHOUTSOS, P. C., *see* Sarris, E. T. *et al.*
- TROTTER, D. E. and G. NEWKIRK, Jr. / Coronal Magnetic Field of the Sun on 7 January 1969 **20**, 372 (*Research Note*)
- TROTTER, D. E., *see* Altschuler, M. D. *et al.*
- TROTTER, D. E., *see* Altschuler, M. D. *et al.*
- TROTTER, D. E., *see* Eddy, J. A. *et al.*
- TROTTER, D. E., *see* Hansen, R. T. *et al.*
- TROTTER, D. E., *see* Newkirk, Jr., G. *et al.*
- TROTTER, G. and R. M. MACQUEEN / The Orientation of Pre-Transient Coronal Magnetic Fields **68**, 177
- TROTTER, G., *see* Caroubalos, C. *et al.*
- TROTTER, G., *see* Heristchi, D. J.
- TROTTER, G., *see* Heristchi, D. J. *et al.*
- TROTTER, G., *see* Klein, L. *et al.*
- TROTTER, G., *see* Pick, M. *et al.*
- TROYAN, V., *see* Gurtovenko, E.
- TRÜMPER, J., *see* Krämer, G. *et al.*
- TSAO, C. H., *see* Forbush, S. E. *et al.*
- TSAP, T. T., *see* Gopasyuk, S. I. *et al.*
- TSAP, T. T., *see* Kotov, V. A. *et al.*
- TSAP, T. T., *see* Martres, M.-J.
- TSAP, T. T., *see* Severny, A. B. *et al.*
- TSEPANOV, A. V., *see* Zaitsev, V. V. *et al.*
- TSIROPOULA, G., *see* Bonnet, R. M.
- TSUBAKI, T. / Line Profile Analysis of a Coronal Formation Observed near a Quiescent Prominence: Intensities, Temperatures and Velocity Fields **43**, 147
- TSUBAKI, T. / Periodic Oscillations Found in Coronal Velocity Fields **51**, 121
- TSUBAKI, T. / Line Profile Analysis of an Active Region Corona Observed Successively at the East and West Limb **87**, 57
- TSUBAKI, T., H. KUROKAWA, and M. KANNO / Fine Structure in the Inner Corona Observed at the 1970 Eclipse **21**, 305
- TSUBAKI, T., *see* Kanno, M. *et al.*
- TSUBAKI, T., *see* Kurokawa, H. *et al.*
- TSUCHIYA, Atsushi / The Slowly Varying Component of the Solar Radio Emission around 1 cm Wavelength **7**, 268
- TSUCHIYA, Atsushi and Kiyoshi NAGANE / Observation of the S-Component of the Solar Radio Emission by an Eight-Element Grating Interferometer at 17 Gc/s **1**, 121
- TSUCHIYA, Atsushi and Kozo TAKAHASHI / Spectrum of Slowly Varying Component of Solar Radio Emission on Millimeter Wavelengths **3**, 346 (*Research Note*)
- TSUCHIYA, Atsushi and Kozo TAKAHASHI / Spectrum of Slowly Varying Component of Solar Radio Emission on Millimeter Wavelengths **3**, 346 (*Research Note*)
- TSUNETA, S., T. TAKAKURA, N. NITTA, K. OHKI, K. MAKISHIMA, T. MURAKAMI, M. ODA, and Y. OGAWARA / Vertical Structure of Hard X-Ray Flares **86**, 313
- TSUNETA, S., *see* Kosugi, T.
- TSUNETA, S., *see* Ohki, K. *et al.*
- TSUNETA, S., *see* Takakura, T. *et al.*
- TSYBKO, YA. G. / Harmonic Components of the Decametric Solar Radio Bursts **92**, 299
- TSYBKO, YA. G., *see* Abranin, E. P. *et al.*
- TSYBKO, YA. G., *see* Abranin, E. P. *et al.*
- TSYBKO, YA. G., *see* Abranin, E. P. *et al.*
- TSYBKO, YA. G., *see* Abranin, E. P. *et al.*
- TSYBKO, YA. G., *see* Baselyan, L. L. *et al.*
- TSYBKO, YA. G., *see* Bazelyan, L. L. *et al.*
- TULUNAY, Y. K., *see* Willis, D. M.
- TUOMINEN, J. / Remarks Concerning Ward's 'The Latitudinal Motion of Sunspots and Solar Meridional Circulations' **34**, 15 (*Research Note*)
- TUOMINEN, J. / 22-Year Cycle or 11-Year Cycle in

- the Latitude Drift of Sunspot Groups? **47**, 541
- TUOMINEN, J. and J. KYRÖLÄINEN / Positions of Sunspot Groups and Solar Rotation **74**, 153
- TUOMINEN, J. and J. KYRÖLÄINEN / On the Latitude Drift of Sunspot Groups and Solar Rotation **79**, 161
- TUR, T. J. and E. R. PRIEST / The Formation of Current Sheets during the Emergence of New Magnetic Flux from below the Photosphere **48**, 89
- TUR, T. J. and E. R. PRIEST / A Trigger Mechanism for the Emerging Flux Model of Solar Flares **58**, 181
- TURNER, James M., *see* Siscoe, George L.
- TURNER, P. J., *see* Kundu, M. R. *et al.*
- TURNER, R. F., *see* Acton, L. W. *et al.*
- TURON, P. / Inhomogeneous Model of the Photosphere **41**, 271
- TURON, P. J. and P. J. LÉNA / High Resolution Solar Images at 10 Microns: Sunspot Details and Photometry **14**, 112
- TURON, P. J. and P. LÉNA / First Observations of the Granulation at 1.65 μ , Center-to-Limb Variation of the Contrast **30**, 3
- TUROVA, I. P. / On Umbral Flashes in Different Sunspot Groups **91**, 51 (*Research Note*)
- TUROVA, I. P., R. B. TEPLITSKAJA, and G. V. KUKLIN / The Study of Umbral Flashes in the Umbrae of Two Sunspots **87**, 7
- TWORKOWSKI, A. S., *see* Tavakol, R. K.
- TZIRULNIK, L. B., *see* Guseinov, R. E. *et al.*
- TZUR, I., *see* Osherovich, V. A. *et al.*
- UBEROI, C. / A Note on the Existence of Alfvén Surface Waves **78**, 351 (*Research Note*)
- UBEROI, C., *see* Somasundaram, K.
- UCHIDA, Yutaka / Propagation of Hydromagnetic Disturbances in the Solar Corona and Moreton's Wave Phenomenon **4**, 30
- UCHIDA, Y. / Behavior of the Flare-Produced Coronal MHD Wavefront and the Occurrence of Type II Radio Bursts **39**, 431
- UCHIDA, Y. and H. HUDSON / Search for Weak White-Light Flares by Time-Wise Photographic Cancellation **26**, 414
- UCHIDA, Y. and O. KABURAKI / Excess Heating of Corona and Chromosphere above Magnetic Regions by Non-Linear Alfvén Waves **35**, 451
- UCHIDA, Y. and T. SAKURAI / Heating and Reconnection of the Emerging Magnetic Flux-Tubes and the Role of the Interchange Instability **51**, 413
- UCHIDA, Y., M. D. ALTSCHULER, and G. NEWKIRK, Jr. / Flare-Produced Coronal MHD-Fast-Mode Wavefronts and Moreton's Wave Phenomenon **28**, 495
- UCHIDA, Y., *see* Sakurai, T.
- UCHIDA, Y., *see* Shibata, K. *et al.*
- UCHIDA, Yutaka, *see* Takakura, Tatsuo
- UERFELD, and S. R. ROGERS / Stokes II - A New Polarimeter for Solar Observations **70**, 395
- ULMSCHNEIDER, P. / On Frequency and Strength of Shock Waves in the Solar Atmosphere **12**, 403
- ULMSCHNEIDER, P. / Radiation Loss and Mechanical Heating in the Solar Chromosphere **39**, 327
- ULMSCHNEIDER, P. / Is the Solar 5 min Oscillation an Important Heating Mechanism for the Chromosphere and the Corona? **49**, 249
- ULMSCHNEIDER, P. and W. KALKOFEN / The Effect of Mechanical Waves on Empirical Solar Models **28**, 3
- ULRICH, R. K., *see* Rhodes, E. J., Jr. *et al.*
- UNDERWOOD, J. H. and D. L. MCKENZIE / The Analysis and Interpretation of Solar X-Ray Photographs **53**, 417
- UNDERWOOD, J. H. and D. L. MCKENZIE / The Analysis and Interpretation of Solar X-Ray Photographs (*Errata*) **57**, 485 (**53**, 417)
- UNDERWOOD, J. H. and D. L. MCKENZIE / Further Remarks on the Analysis and Interpretation of Solar X-Ray Photographs **60**, 311 (*Research Note*)
- UNDERWOOD, J. H. and W. M. NEUFERT / The GSFC and X-Ray Spectroheliograph on OSO-7 **35**, 241
- UNDERWOOD, J. H. and W. S. MUNEY / A Glancing Incidence Solar Telescope for the Soft X-Ray Region **1**, 129
- UNDERWOOD, J. H., *see* Aikin, J. C.
- UNDERWOOD, J. H., *see* Broussard, R. M. *et al.*
- UNDERWOOD, J. H., *see* Vorpahl, J. A. *et al.*
- UNNO, W., E. RIBES, and J. APPENZELLER / On the Structure and the Motion of a Spicule **35** 287
- UNSÖLD, A. / In Memoriam M. G. J. Minnaert **17**, 3
- UNZ, F. and K. WALTER / General Magnetic Field and Rotation of the Outer Layers of the Sun **8**, 310
- URALOV, A. M., *see* Zandanov, V. G.
- URBARZ, H. / Weissenau Solar Radio Astronomy Observatory **7**, 147 (*Report from Solar Institute*)
- URBARZ, H. / Comparison of Dynamic Radio Spectra of the September 2, 1966 Complex Burst Recorded at Culgoora and at Weissenau **13**, 458 (*Research Note*)
- URBARZ, H. W., *see* Degaonkar, S. S.
- URCH, I. H. / A Model of the Magnetized Solar Wind **10**, 219
- URNOV, A. M., *see* Aglizki, E. V. *et al.*
- URNOV, A. M., *see* Bromboszcz, G. *et al.*
- URNOV, A. M., *see* Korneev, V. V. *et al.*

- URNOV, A. M., *see* Korneev, V. V. *et al.*
- URNOV, A. M., *see* Korneev, V. V. *et al.*
- URNOV, A. M., *see* Krutov, V. V. *et al.*
- URNOV, A. M., *see* Siarkowski, M. *et al.*
- URNOV, A. M., *see* Siarkowski, M. *et al.*
- ut, I., *see* Kane, S. R. *et al.*
- UTROBIN, V. G., *see* Nikolskaya, K. I.
- VAHIA, M. N., *see* Biswas, S. *et al.*
- VAIANA, G. S., A. S. KRIEGER, and A. F. TIMOTHY / Identification and Analysis of Structures in the Corona from X-Ray Photography **32**, 81
- VAIANA, G. S., *see* Golub, L. *et al.*
- VAIANA, G. S., *see* Golub, L. *et al.*
- VAIANA, G. S., *see* Krieger, A. S.
- VAIANA, G. S., *see* Krieger, A. *et al.*
- VAIANA, G. S., *see* Landini, M. *et al.*
- VAIANA, G. S., *see* McIntosh, P. S. *et al.*
- VAIANA, G. S., *see* Nolte, J. T. *et al.*
- VAIANA, G. S., *see* Pallavicini, R.
- VAIANA, G. S., *see* Pallavicini, R. *et al.*
- VAIANA, G. S., *see* Poletto, G. *et al.*
- VAIANA, G. S., *see* Serio, S. *et al.*
- VAIANA, G. S., *see* Timothy, A. F. *et al.*
- VAINShteIN, L. A., *see* Aglizki, E. V. *et al.*
- VAINSTEIN, L. A., *see* Beigman, I. L.
- VAINSTEIN, L. A., *see* Grineva, Yu. I. *et al.*
- VAINSTEIN, S. I., G. V. KUKLIN, and V. P. MAKSIMOV / On a Possible Mechanism of Solar Faculae Heating **53**, 15
- VAISBERG, O. L., *see* Bosqued, J. M. *et al.*
- VAISBERG, O. L., *see* D'Uston, C. *et al.*
- VALDÉS, GALICIA, J. F., X. MOUSSAS, J. J. QUENBY, F. M. NEUBAUER, and R. SCHWENN / Mean Free Paths and Diffusion Coefficients for Energetic Protons at Small Heliodistances Calculated Using Helios 1 and 2 Data **91**, 399
- VALDEZ, J. and M. D. ALTSCHULER / Preliminary Observations of Coronal Magnetic Fields before and after Solar Proton Events **15**, 446
- VALENTINE, D., *see* Kaplon, M. F.
- VALNÍČEK, B., *see* Fárník, F. *et al.*
- VALNÍČEK, B., *see* Korneev, V. V. *et al.*
- VALNÍČEK, B., *see* Lefus, V.
- VALNÍČEK, B., *see* Tindo, I. P. *et al.*
- VAN ALLEN, J. A., C. D. WENDE, and S. R. MOSIER / The North Liberty Radio Observatory of the University of Iowa **7**, 159 (*Report from Solar Institute*)
- VAN ALLEN, J. A., *see* Drake, Jerry, Sr.
- VAN BALLEGOOIJEN, A. A. / On the Temperature Structure of Sunspot Umbrae **91**, 195
- VAN BEEK, H. F., P. HOYNG, H. LAFLEUR, and G. M. SIMNETT / The Hard X-Ray Imaging Spectrometer (HXIS) **65**, 39
- VAN BEEK, H. F., *see* Harrison, R. A. *et al.*
- VAN BEEK, H. F., *see* Hoyng, P. *et al.*
- VAN BEEK, H. F., *see* Švestka, Z. *et al.*
- VAN BUEREN, H. G. and M. KUPERUS / On the Determination of the Velocity of the Exciters of Type II Solar Radiobursts **14**, 208
- VAN DEN OORD, G. H. J., *see* Martens, P. C. H. *et al.*
- VAN DER BURG, G., *see* Kattenberg, A.
- VAN DER RAAY, H. B., *see* Brookes, J. R. *et al.*
- VAN DER RAAY, H. B., *see* Claverie, A. *et al.*
- VAN DER RAAY, H. B., *see* Claverie, A. *et al.*
- VAN DESSEL, E. L. J. / A Comparison of Computed and Observed Line Profiles and Flash Intensities in the Photosphere-Chromosphere Transition Region **15**, 322
- VAN DESSEL, E. L. / Line Intensities in the Photosphere-Chromosphere Transition Region. III: Empirical NLTE Analysis of Fe I Lines **38**, 351
- VAN DESSEL, E. L. / Line Intensities in the Photosphere-Chromosphere Transition Region. IV: Cr I and Metallic Ion Lines **44**, 13
- VAN DESSEL, E. L. / Line Intensities in the Photosphere-Chromosphere Transition Region. II: Observational Material from the 1961 Eclipse at Brač **33**, 375
- VAN GILS, J. N. and W. DE GRAAFF / Absolute Intensities in the Solar X-Ray Spectrum near Minimum Activity **2**, 290
- VAN HOLLEBEKE, M. A. I., L. S. MA SUNG, and F. B. McDONALD / The Variation of Solar Proton Energy Spectra and Size Distribution with Heliolongitude **41**, 189
- VAN HOLLEBEKE, M. A. I., *see* Kahler, S. W. *et al.*
- VAN HOOSIER, M. E., *see* Canfield, R. C.
- VAN HOOSIER, M. E., *see* Tousey, R. *et al.*
- VAN HOVEN, G. / Solar Flares and Plasma Instabilities: Observations, Mechanisms and Experiments **49**, 95 (*Invited Review*)
- VAN HOVEN, G. / The Effects of Magnetic Structure on the Conduction Cooling of Flare Loops **61**, 115
- VAN HOVEN, G. / Comment on 'First Phase Acceleration Mechanisms and Implications for Hard X-Ray Burst Models in Solar Flares' **73**, 205 (*Research Note*)
- VAN HOVEN, G., *see* Chiuderi, C. *et al.*
- VAN HOVEN, G., *see* Dingle, L. A. *et al.*
- VAN HOVEN, G., *see* Einaudi, G.
- VAN HOVEN, G., *see* Fung, P. C. W. *et al.*
- VAN HOVEN, G., *see* Giachetti, R. *et al.*
- VAN HOVEN, G., *see* Ray, A.
- VAN HOVEN, G., *see* Sparks, L.
- VAN HOVEN, G., *see* Švestka, Z. *et al.*
- VAN HOVEN, G., *see* Tachi, T. *et al.*

- VAN NIEUWKOOP, J., *see* De Groot, T.
- VAN RENSBERGEN, Walter / The Influence of Doubly Excited Levels on the Ionization Formula for the Solar Corona **1**, 354
- VAN RENSBERGEN, W. / Some Oscillator Strength in the Spectra of Cl , O I , Si I , Ca II and Sr II **11**, 11
- VAN RENSBERGEN, W. and G. DERIDDER / On the Determination of Damping Constants for Fe I Lines in the Solar Photosphere **67**, 5 (*Research Note*)
- VAN RENSBERGEN, W., E. DE DONCKER, and G. DERIDDER / On the Broadening and Shift of Spectral Lines **40**, 303
- VAN SLUITERS, A., *see* Houtgast, J.
- VAN TEND, W. / The Onset of Coronal Transients **61**, 89
- VAN TEND, W. / On Spicules and the Stability Analysis of the Minimum Flux Corona Theory **64**, 229
- VAN TEND, W. / Coronal Heating by Prominence Turbulence **66**, 29
- VAN TEND, W. / The Importance of Photospheric Magnetic Field Complexity for Coronal Energy Storage **66**, 21
- VAN TEND, W. and M. KUPERUS / The Development of Coronal Electric Current Systems in Active Regions and Their Relation to Filaments and Flares **59**, 115
- VAN TEND, W., *see* De Jager, C. *et al.*
- VAN TEND, W., *see* Kattenberg, A. *et al.*
- VAN TEND, W., *see* Kuperus, M.
- VAN TEND, W., *see* Švestka, Z. *et al.*
- VANBEVEREN, D. and C. DE LOORE / Heating of the Solar Transition Zone and Corona **50**, 99
- VANDAKUROV, YU. V. / On Convection in the Sun **40**, 3
- VANDAKUROV, YU. V. / Equilibrium Problems in a Rotating Convection Zone **45**, 501
- VANHOOSIER, M. E., J.-D. F. BARTOE, G. E. BRUECKNER, D. K. PRINZ, and J. W. COOK / A High Precision Solar Ultraviolet Spectral Irradiance Monitor for the Wavelength Region 120–400 nm **74**, 521
- VARDAS, I. M. and L. E. CRAM / Partially Coherent Scattering Models for the Formation of the Chromospheric Ca II K Line **38**, 367
- VARDAS, I. M., *see* Cram, L. E.
- VASHA, S., *see* Krutov, V. V. *et al.*
- VASHA, S., *see* Siarkowski, M. *et al.*
- VASILYEV, B. N., *see* Grineva, Yu. I. *et al.*
- VASSILJEVA, G. Y. / Photoelectric Photometry of Solar Granulation in Several Regions of the Continuum **1**, 16
- VASSILYEVA, G. / On the Difference between the Photometric Inhomogeneities of the Solar Surface in two Colors **4**, 300 (*Research Note*)
- VASSILYEVA, G. J., *see* Kalinjak, A. A.
- VAZQUEZ, M. / A Morphological Study of the Light-Bridges in Sunspots **31**, 377
- VAZQUEZ, M. and F. HERRERA / An Umbra Brightening Associated with a Two-Ribbon Flare **64**, 329 (*Research Note*)
- VAZQUEZ, M., *see* Bonet, J. A. *et al.*
- VAZQUEZ, M., *see* Deubner, F.-L.
- VAZQUEZ, M., *see* Roca-Cortés, T. *et al.*
- VÁZQUEZ, M., *see* Schröter, E. H. *et al.*
- VECK, N. J., *see* Jordan, C.
- VEDRENNE, G., *see* Chambon, G. *et al.*
- VEEDER, G. J. and H. ZIRIN / The Chromospheric Magnetograph **12**, 391
- VELLANTE, M., *see* Villante, U.
- VELUSAMY, T., *see* Kundu, M. R.
- VELUSAMY, T., *see* Kundu, M. R. *et al.*
- VELUSAMY, T., *see* Kundu, M. R. *et al.*
- VELUSAMY, T., *see* Webb, D. F. *et al.*
- VENKATAKRISHNAN, P. / Frequency Response of Magnetic Flux Sheaths **63**, 135
- VENKATAKRISHNAN, P. / Influence of Solar Wind Variability on the Recurrence of Droughts **81**, 193 (*Research Note*)
- VENKATAKRISHNAN, P. and M. H. GOKHALE / Transmission of Acoustic Wave Energy Across a Magnetic Flux Sheath **54**, 371
- VENKATAKRISHNAN, P. and S. S. HASAN / Comment on the Paper 'A New Resonance in the Solar Atmosphere' by Joseph V. Hollweg **75**, 79 (*Research Note*)
- VENKATAKRISHNAN, P., *see* Balasubramaniam, K. S. *et al.*
- VENKATAKRISHNAN, P., *see* Hasan, S. S.
- VENKATAKRISHNAN, P., *see* Hasan, S. S.
- VENKATESAN, D., A. K. SHUKLA, and S. P. AGRAWAL / Cosmic Ray Intensity Variations and Two Types of High Speed Solar Streams **81**, 375
- VENKATESAN, D., *see* Balasubrahmanyam, V. K.
- VENKATESAN, D., *see* Balasubrahmanyam, V. K.
- VENKATESAN, D., *see* Balasubrahmanyam, V. K.
- VENKATESWARAN, S. V., *see* Marriott, R. T. *et al.*
- VERETENNIKOVA, V. K., *see* Vladimírsky, B. M. *et al.*
- VERMA, V. K. / Longitudinal Distribution of the Cool Solar Surges **94**, 155
- VERMA, V. K. / On the Solar Surge Association with Microwave and Hard X-Ray Emission Bursts **97**, 381
- VERMA, V. K. and M. C. PANDE / Time Delay between $\text{H}\alpha$ and Hard X-Ray Emissions during Impulsive Solar Flares **97**, 107
- VERMA, V. K. and M. C. PANDE / Longitudinal Distribution of the Hard X-Ray Bursts on the

- Sun 99, 285
- VERMUE, J., *see* De Jager, C.
- VERNAZZA, J. E. and R. W. NOYES / Inhomogeneous Structure of the Solar Chromosphere from Lyman-Continuum Data 22, 358
- VERNAZZA, J. E. and R. W. NOYES / Equator-Pole Differences in the Solar Chromosphere from Lyman-Continuum Data 26, 335
- VERNAZZA, J. E., *see* Schmahl, E. J. *et al.*
- VERNAZZA, J. E., *see* Withbroe, G. L.
- VERNIN, J., *see* Borgnino, J. *et al.*
- VESECKY, J. F. and A. J. MEADOWS / The Initial Development of Solar Flares 6, 80
- VESECKY, J. F., *see* Culhane, J. L. *et al.*
- VESECKY, J. F., *see* Evans, K. D. *et al.*
- VESECKY, J., *see* Dunkel, N. *et al.*
- VESELOVSKY, I. S., *see* Alexeev, I. I. *et al.*
- VESPIGNANI, G. R., *see* Pizzichini, G. *et al.*
- VIAL, J. C., P. GOUTTEBROZE, G. ARTZNER, and P. LEMAIRE / Profiles of H I (λ), Mg II (h and k), Ca II (H and K) Lines of an Active Filament at the Limb, with the LPSP Instrument aboard the OSO-8 Satellite 61, 39
- VIAL, J. C., P. LEMAIRE, G. ARTZNER, and P. GOUTTEBROZE / OVI ($\lambda = 1032 \text{ \AA}$) Profiles in and above an Active Region Prominence, Compared to Quiet Sun Center and Limb Profiles 68, 187
- VIAL, J. C., M. J. MARTRES, and J. SALM-PLATZER / λ , $\lambda\beta$ (of H I), k and h (of Mg II), K and H (of Ca II) Observations in a Quiescent Prominence with the OSO-8 LPSP Instrument 70, 325
- VIAL, J.-C., *see* Dumont, S. *et al.*
- VIAL, J. C., *see* Grossmann-Doerth, U. *et al.*
- VIAL, J. C., *see* Kneer, F. *et al.*
- VIAL, J.-C., *see* Lemaire, P. *et al.*
- VIAL, J. C., *see* Mouradian, Z. *et al.*
- VIDAL-MADJAR, A. / Evolution of the Solar Lyman Alpha Flux during Four Consecutive Years 40, 69
- VIDAL-MADJAR, A. and B. PHISSAMAY / The Solar λ Flux near Solar Minimum 66, 259
- VIKANES, F., *see* Andersen, B. N. *et al.*
- VILLA, G., *see* Cherki, G. *et al.*
- VILLANTE, U. and M. VELLANTE / The Radial Evolution of the IMF Fluctuations: A Comparison with Theoretical Models 81, 367
- VILLANTE, U., *see* Mariani, F. *et al.*
- VILLANTE, U., *see* Mariani, F. *et al.*
- VILLORESI, G., *see* Iucci, N. *et al.*
- VILMER, N., *see* Klein, L. *et al.*
- VITINSKIĬ, Ju. I. / On the Problem of Active Longitudes of Sunspots and Flares 7, 210
- VITINSKY, YU. I. / Comments on the So-Called Maunder Minimum 57, 475 (*Research Note*)
- VLADIMIRSKY, B. M., V. P. BOBOVA, N. M. BONDARENKO, and V. K. VERETENNIKOVA / 160-min Pulsations in the Magnetosphere of the Earth Possibly Caused by Oscillations of the Sun 82, 451
- VLADIMIRSKY, B. M., YU. I. / Comments on the So-Called Maunder Minimum 57, 475 (*Research Note*)
- VOGT, R. W., *see* Hagen, J. P. *et al.*
- VOIGT, H. H., *see* Brückner, G.
- VOIGT, W., *see* Aurass, H. *et al.*
- VOLLAND, H., *see* Bird, M. K. *et al.*
- VOLOBUYEV, S. A., A. M. GALPER, V. V. DMITRENKO, V. G. KIRILLOV-UGRYUMOV, B. I. LUCHKOV, and E. M. SHERMANZON / Additional Electron Flux Detection after Magnetic Perturbations 20, 491
- VON KLÜBER, H. / The Cambridge University Solar Research Station in Malta 4, 479 (*Report from Solar Institute*)
- VON UEXKÜLL, M. *see* Grossman-Doerth, U. *et al.*
- VON UEXKÜLL, M., *see* Grossmann-Doerth, U.
- VON UEXKÜLL, M., *see* Grossmann-Doerth, U.
- VON UEXKÜLL, M., *see* Grossmann-Doerth, U.
- VON UEXKÜLL, M., *see* Grossmann-Doerth, U.
- VON UEXKÜLL, M., *see* Grossmann-Doerth, U. *et al.*
- VON UEXKÜLL, M., *see* Grossmann-Doerth, U. *et al.*
- VORONTSOV, S. V. / Adiabatic Oscillations of a Differentially Rotating Star. Second-Order Perturbation Theory 82, 379
- VORONTSOV, S. V. and K. I. MARCHENKOV / Adiabatic Oscillations of Solar Models with a High-Z Convective Zone 82, 215
- VORPAHL, J. A. / X-Radiation ($E > 10 \text{ keV}$), H α and Microwave Emission during the Impulsive Phase of Solar Flares 26, 397
- VORPAHL, J. A. / Flares Associated with EFR's (Emerging Flux Regions) 28, 115
- VORPAHL, J. / 19-20 May 1969, an Example of Type III Emission during the Impulsive Phase of Flares 29, 447
- VORPAHL, J. A. / Energy Storage and Deposition in a Solar Flare 47, 147
- VORPAHL, J. A. / Comments Regarding Energy Release and Transfer in Solar Flares 53, 271
- VORPAHL, J. A. / Physical Conditions in the Corona for a Bipolar Magnetic Region 57, 297
- VORPAHL, J. and T. POPE / Solar Bright Points in 3840 \AA and H α 25, 347
- VORPAHL, J. and H. ZIRIN / Identification of the Hard X-Ray Pulse in the Flare of September 11-12, 1968 11, 285
- VORPAHL, J. A., E. G. GIBSON, P. B. LANDECKER, D. L. MCKENZIE, and J. H. UNDERWOOD /

- Observations of the Structure and Evolution of Solar Flares with a Soft X-Ray Telescope **45**, 199
- VORPAHL, J., *see* Stewart, R. T.
- VORPAHL, J., *see* Zirin, H. *et al.*
- VRŠNAK, B. / The Oscillating Loop Prominence of July 17, 1981 **94**, 289
- VSEKHSVJATSKY, S. K., *see* Koutchmy, S. *et al.*
- VYALSHIN, G. F., *see* Krat, V. A.
- WAGGETT, P. W., *see* Harrison, R. A. *et al.*
- WAGNER, J. S., T. TAJIMA, and S.-I. AKASOFU / Current Interruption by Density Depression **98**, 305
- WAGNER, L. S., *see* Garriott, O. K.
- WAGNER, William J. and Lewis L. HOUSE / A Survey of Current Coronal Visible Line Identifications **5**, 55
- WAGNER, W. J. and L. B. GILLIAM / A Possible Example of Giant Convective Cells Delineated by Magnetic Fields **50**, 265 (*Research Note*)
- WAGNER, W. J., G. NEWKIRK, JR., and H. E. SCHMIDT / An Observation of Prominence Condensation out of a Coronal Void **83**, 115
- WAGNER, W. J., R. T. HANSEN, and S. F. HANSEN / Coronal Disturbances. II: The Fast Rearrangement of Coronal Magnetic Fields **34**, 453
- WAGNER, W. J., R. M. ILLING, C. B. SAWYER, L. L. HOUSE, N. R. SHEELEY, JR., R. A. HOWARD, M. J. KOOMEN, D. J. MICHELS, R. N. SMARTT, and M. DRYER / A White-Light/FeX/H α Coronal Transient Observation to 10 Solar Radii **83**, 153
- WAGNER, W. J., *see* Beckers, J. M.
- WAGNER, W. J., *see* Demastus, H. L. *et al.*
- WAGNER, W. J., *see* Gergely, T. E. *et al.*
- WAGNER, W. J., *see* Švestka, Z. *et al.*
- WAGNER, W., *see* MacQueen, R. M. *et al.*
- WALDMEIER, M. / The Swiss Federal Observatory, Zürich **5**, 423 (*Report from Solar Institute*)
- WALDMEIER, M. / The Structure of the Monochromatic Corona in the Surroundings of Prominences **15**, 167
- WALDMEIER, M. / The Asymmetry of Solar Activity in the Years 1959–1969 **20**, 332
- WALDMEIER, M. / Threadlike Coronal Streamers **27**, 143
- WALDMEIER, M. / A Secondary Polar Zone of Solar Prominences **28**, 389
- WALDMEIER, M. / The Limb Flare of August 11, 1972 **30**, 129
- WALDMEIER, M. / The Coronal Hole at the 7 March 1970 Solar Eclipse **40**, 351
- WALDMEIER, M. / The Excitation of the Coronal Line 5303 Å **45**, 147
- WALDMEIER, M. / The Height of the 9 cm Solar Emission **57**, 369 (*Research Note*)
- WALDMEIER, M. / A Sunspot with a Peculiar Motion **66**, 273 (*Research Note*)
- WALDMEIER, M. / A Twin Flare in Symmetrical Sunspot Groups **70**, 93 (*Research Note*)
- WALDMEIER, M. / Cyclic Variations of the Polar Coronal Hole **70**, 251
- WALDMEIER, M. / The Parameters of Solar Cycle No. 21 **73**, 207 (*Research Note*)
- WALKER, A. B. C., Jr., *see* Rugge, H. R.
- WALKER, A. B. C., Jr., *see* Rugge, H. R.
- WALLACE, L., *see* Livingston, W.
- WALLENHORST, S. G. / Enthalpy Flux Cooling of the Solar Corona **77**, 167
- WALLENHORST, S. G. / Enthalpy Flux Cooling of the Solar Corona. II: Applications to Closed Coronal Structures **79**, 333
- WALLENHORST, S. G. / On Long-Term Periodicities in the Sunspot Cycle **80**, 379
- WALLENHORST, S. G. / On Possible Correlations in the Photospheric Magnetic Field **83**, 191
- WALLENHORST, S. G. and R. HOWARD / On the Dissolution of Sunspot Groups **76**, 203
- WALLENHORST, S. G. and K. P. TOPKA / On the Disappearance of a Small Sunspot Group **81**, 33
- WALTER, J. (ed.), *see* Zirin, H. *et al.* (eds.)
- WALTER, K., *see* Unz, F.
- WAMSTEKER, W., *see* Greve, A.
- WANG, H. T. and R. RAMATY / Neutron Production and 2.2 MeV Gamma-Ray Line Production in the Solar Atmosphere **36**, 129
- WANG, J., H. ZIRIN, and Z. SHI / The Smallest Observable Elements of Magnetic Flux **98**, 241
- WANG, J.-L., *see* Loughhead, R. E. *et al.*
- WANG, J. L., *see* Takakura, T. *et al.*
- WANG, P. K. and G. L. SISCOE / Ancient Chinese Observations of Physical Phenomena Attending Solar Eclipses **66**, 187
- WANG, S., *see* Wu, S. T. *et al.*
- WANG, YI-MING, *see* Withbroe, G. L.
- WARD, F. / The Latitudinal Motion of Sunspots and Solar Meridional Circulations **30**, 527
- WARD, F., R. F. CARNEVALE, and R. G. HENDL / Solar Flare Observations from a Pair of Matched Instruments **31**, 131
- WARNER, B., *see* Lambert, D. L.
- WARWICK, James W. / Decametric Radio Spectra and Positions during the Flare of August 28, 1966: 1522 UT **4**, 446
- WARWICK, James W. / A Model for Type-IV Emission in the Solar Burst of June 9, 1959 at Decametric Wavelengths **5**, 111
- WARWICK, J. W., *see* Boischoat, A. *et al.*
- WASSENBERG, W. / On the Polarization of Solar Microwave Bursts Observed at 17 GHz **20**, 130

- WATANABE, T., K. TANAKA, K. AKITA, and N. NITTA / Thermal Evolution of Flare Plasmas **86**, 107
- WATANABE, T., *see* Akita, K. *et al.*
- WATANABE, T., *see* Hirayama, T. *et al.*
- WATANABE, T., *see* Tanaka, K. *et al.*
- WATSON, B., *see* Liebenberg, D. H. *et al.*
- WATSON, B., *see* Liebenberg, D. H. *et al.*
- WEART, S. R. / Production of the Solar Magnetic Fine-Structure by Convection **14**, 274
- WEART, S. R. / The Horizontal Component of Spicule Motion **14**, 310
- WEBB, A. R. and B. ROBERTS / Vertical Motions in an Intense Magnetic Flux Tube. II: Convective Instability **59**, 249
- WEBB, A. R. and B. ROBERTS / Vertical Motions in an Intense Magnetic Flux Tube. IV: Radiative Relaxation in a Uniform Medium **68**, 71
- WEBB, A. R. and B. ROBERTS / Vertical Motions in an Intense Magnetic Flux Tube. V: Radiative Relaxation in a Stratified Medium **68**, 87
- WEBB, A. R., *see* Roberts, B.
- WEBB, C. J., *see* Edmonds, F. N., Jr.
- WEBB, D. F. / Coronal X-Ray Activity Preceding Solar Flares **97**, 321
- WEBB, D. F. and B. V. JACKSON / Kinematical Analysis of Flare Spray Ejecta Observed in the Corona **73**, 341
- WEBB, D. F. and M. R. KUNDU / The Association of Nonthermal Electrons with Non-Flaring Coronal Transients **57**, 155
- WEBB, D. F. and H. ZIRIN / Coronal Loops and Active Region Structure **69**, 99
- WEBB, D. F., A. S. KRIEGER, and D. M. RUST / Coronal X-Ray Enhancements Associated with H α Filament Disappearances **48**, 159
- WEBB, D. F., J. M. DAVIS, M. R. KUNDU, and T. VELUSAMY / X-Ray and Microwave Observations of Active Regions **85**, 267
- WEBB, D. F., J. M. DAVIS, and P. S. MCINTOSH / Observations of the Reappearance of Polar Coronal Holes and the Reversal of the Polar Magnetic Field **92**, 109
- WEBB, D. F., P. S. MCINTOSH, J. T. NOLTE, and C. V. SOLODYNA / Evidence Linking Coronal Transients to the Evolution of Coronal Holes **58**, 389
- WEBB, D. F., *see* Ahmad, I. A.
- WEBB, D. F., *see* Kahler, S. W. *et al.*
- WEBB, D. F., *see* Kahler, S. W. *et al.*
- WEBB, D., *see* Krieger, A. *et al.*
- WEBB, D. F., *see* Rust, D. M.
- WEBB, D. F., *see* Rust, D. M. *et al.*
- WEBB, S. and J. J. QUENBY / Numerical Investigations of Non-Resonant and Resonant Scattering of Charged Particles with a Spatially Varying Magnetic Field **37**, 235
- WEBB, S. and J. J. QUENBY / An Investigation of some Large Directional Discontinuities in the Solar Wind Plasma Using Multisatellite Observations **38**, 257
- WEBB, S., A. BALOGH, J. J. QUENBY, and J. F. SEAR / A Comparison of Theoretical and Experimental Estimates of the Solar Proton Diffusion Coefficient during Three Flare Events **29**, 477
- WEBB, S., A. BALOGH, J. J. QUENBY, and J. F. SEAR / A Comparison of Theoretical and Experimental Estimates of the Solar Proton Diffusion Coefficient during Three Flare Events (*Errata*) **30**, 548 (**29**, 477)
- WEBB, S., *see* Dyer, C. S. *et al.*
- WEBBER, J. C. / The Molecular Spectrum of Sunspots **16**, 340
- WEBBER, W. R., *see* Lezniak, J. A.
- WEBBER, W. R., *see* Zwickl, R. D.
- WEBER, E. J. / The Effect of Finite Electrical Conductivity on the Angular-Momentum Loss of the Sun Due to the Solar Wind **7**, 470
- WEBER, E. J. / The Rotation of the Solar Atmosphere **9**, 150
- WEBER, E. J. / The Torque on the Interplanetary Plasma Due to Its Anisotropy **13**, 240 (*Research Note*)
- WEBER, E. J. / Unique Solutions of Solar Wind Models with Thermal Conductivity **14**, 480
- WEBER, R. R. / Low Frequency Spectra of Type III Solar Radio Bursts **59**, 377
- WEBER, R. R., R. J. FITZENREITER, J. C. NOVACO, and J. FAIBERG / Interplanetary Baseline Observations of Type III Solar Radio Bursts **54**, 431
- WEBER, R. R., *see* Fitzenreiter, R. J. *et al.*
- WEBER, W. J. / Some Aspects of Coronal Streamer Dynamics **53**, 59
- WEBER, W. J. / Two-Dimensional Equilibrium of a Neutral Sheet in a Gravitational Field **61**, 345
- WEBER, W. J. / Turbulence in Fast-Mode Shocks as a Triggering Mechanism in a Solar Flare **69**, 119
- WEBER, W. J. and H. ROSENBERG / A Model of a Stationary, Isothermal Coronal Streamer **37**, 409
- WEBSTER, L., *see* Howard, R. *et al.*
- WEBSTER, L., *see* Snodgrass, H. B. *et al.*
- WEBSTER, W. J., *see* Hobbs, R. W. *et al.*
- WEEKS, L. H. and L. G. SMITH / L α Measurements during the Solar Eclipse of 12 November, 1966 **20**, 59
- WEFER, F. L. and M. P. BLEIWEISS / The Solar

- Radius at 35 GHz **48**, 77
- WEFER, F. L. and M. D. PAPAGIANNIS / Synoptic Charts of Solar 9.1 cm and Coronal Hole Data **67**, 13
- WEFER, F. L., *see* Bleisweiss, M. P.
- WEFER, F. L., *see* Cliver, E. W.
- WEFER, F. L., *see* Cliver, E. W. *et al.*
- WEFER, F. L., *see* Hagen, J. P. *et al.*
- WEFER, F. L., *see* Swanson, P. N. *et al.*
- WEINBERGER, D., *see* Pierce, A. K. *et al.*
- WEISSKOPF, M. C., *see* Parkinson, J. H. *et al.*
- WEISS, N. O., *see* Simon, G. W.
- WEISS, N. O., *see* Simon, G. W. *et al.*
- WELLCK, R. E., *see* Nakagawa, Y.
- WENDE, C. D. / The Normalization of Solar X-Ray Data from Many Experiments **22**, 492
- WENDE, C. D., *see* Van Allen, J. A.
- WENTZEL, D. G. / Coronal Heating by Alfvén Waves **39**, 129
- WENTZEL, D. G. / Coronal Heating by Alfvén Waves, II **50**, 343
- WENTZEL, D. G. / On the Role of Hydromagnetic Waves in the Corona and the Base of the Solar Wind **52**, 163
- WENTZEL, D. G. / Wave Reflection and Wave Disorder in the Solar Transition Zone and Corona **58**, 307
- WENTZEL, D. G. / Is There a Common Explanation for Scattering of Type III Radio Bursts and Solar Radar? **79**, 375 (*Research Note*)
- WENTZEL, D. G. / Polarization of Fundamental Type III Radio Bursts **90**, 139
- WENTZEL, D. G., *see* Nolte, J. T. *et al.*
- WENTZEL, D. G. (ed.), *see* Sturrock, P. A. *et al.* (eds.)
- WENZEL, K.-P., *see* Sanahuja, B. *et al.*
- WERNER, K., *see* Holweger, H.
- WERNER, N. E., *see* Durney, B. R.
- WERNER, Susan, *see* Zirin, Harold
- WERNER, W., *see* Kneer, F. J. *et al.*
- WEST, E. A. and M. J. HAGYARD / Interpretation of Vector Magnetograph Data Including Magneto-Optic Effects. I: Azimuth Angle of the Transverse Field **88**, 51
- WEST, E. A., *see* deLoach, A. C. *et al.*
- WEST, E. A., *see* Hagyard, M. J. *et al.*
- WEST, E. A., *see* Hagyard, M. J. *et al.*
- WEST, E. A., *see* Hagyard, M. J. *et al.*
- WEST, E. A., *see* Hagyard, M. J. *et al.*
- WEST, E. A., *see* Henze, W., Jr. *et al.*
- WEST, E. A., *see* Krall, K. R. *et al.*
- WESTIN, Hans / Some Statistical Properties of Surges **7**, 393
- WESTIN, H. and L. LISZKA / Motion of Ascending Prominences **11**, 409
- WHANG, Y. C. / Two-Dimensional Guiding-Center Model of the Solar Wind-Moon Interaction **14**, 489
- WHANG, Y. C. / Probability Distribution Functions of Microscale Magnetic Fluctuations during Quiet Conditions **53**, 507
- WHANG, Y. C. / Expansion of the Solar Wind from a Two-Hole Corona **88**, 343
- WHITE, K. P. III and T. J. JANSSENS / An Example of Radio and Optical Homologous Flares **11**, 291
- WHITE, K. P., III, *see* Janssens, T. J.
- WHITE, K. P., III, *see* Janssens, T. J. *et al.*
- WHITE, K. P., III, *see* Mayfield, E. B.
- WHITE, M. L., *see* Sen, H. K.
- WHITE, O. R. / The Spectra of Near-Vertical Structures on the Solar Disk **27**, 27
- WHITE, O. R. and M. Y. CHA / Analysis of the 5 min Oscillatory Photospheric Motion. I: A Problem in Waveform Classification **31**, 23
- WHITE, O. R. and G. W. SIMON / Resolution of the H α Double-Limb Controversy **3**, 269
- WHITE, O. R. and Z. SUEMOTO / A Measurement of the Solar H and K Profiles **3**, 523
- WHITE, O. R., R. C. ALTROCK, J. W. BRAULT, and C. D. SLAUGHTER / Measurements of the Limb Darkening in the Forbidden Mg I Line at 4571.1 Å **23**, 18
- WHITE, O. R., *see* Athay, R. Grant *et al.*
- WHITE, O. R., *see* Athay, R. G. *et al.*
- WHITE, O. R., *see* Cha, M. Y.
- WHITE, O. R., *see* Livingston, W. C.
- WHITE, O. R., *see* Nicolas, K. R. *et al.*
- WHITE, O. R., *see* Schultz, R. B. *et al.*
- WHITE, W. A., *see* Neupert, W. M.
- WIBBERENZ, G., *see* Reinhard, R.
- WIBBERENZ, G., *see* Schulze, B. M. *et al.*
- WIBORG, JR., P. H., *see* Neidig, D. F.
- WICKSTRÖM, B. A., *see* Simon, M.
- WIDING, K. G. / Multiple Loop Activations and Continuous Energy Release in a Solar Flare **53**, 277
- WIDING, K. G. and K. P. DERE / Multiple Loop Activations and Continuous Energy Release in the Solar Flare of June 15, 1973 **55**, 431
- WIDING, K. G., J. D. PURCELL, and G. D. SANDLIN / The UV Continuum 1450–2100 Å and the Problem of the Solar Temperature Minimum **12**, 52
- WIDING, K. G., *see* Hiei, E.
- WIDING, K. G., *see* Keenan, F. P. *et al.*
- WIEHL, H. J., A. O. BENZ, and M. J. ASCHWANDEN / Different Time Constants of Solar Decimetric Bursts in the Range 100–1000 MHz **95**, 167

- VIEHL, H. J., D. A. BATCHELOR, C. J. CRANNELL, B. R. DENNIS, P. N. PRICE, and A. MAGUN / Great Microwave Bursts and Hard X-Rays from Solar Flares **96**, 339
- VIEHR, E. / On Polarimetry in Solar Active Regions. I: The New Locarno Polarimeter; Observing Procedures **9**, 225
- VIEHR, E. / On Polarimetry in Solar Active Regions (*Errata*) **11**, 172 (**9**, 225)
- VIEHL, H. J., *see* Aschwanden, M. J. *et al.*
- VIEHR, E. / On Polarimetry in Solar Active Regions. II: Selection of Lines; Interpretation of Polarimetric Data **11**, 399
- VIEHR, E. / On Polarimetry in Solar Active Regions. III: Circular Polarization in Different Lines; Development of Magnetic Fields **15**, 148
- VIEHR, E. / On Polarimetry in Solar Active Regions. IV: Influence of Telescopic Phase Retardation **18**, 226
- VIEHR, E. / On Polarimetry in Solar Active Regions. V: The Magnetic Field before and after a Flare **24**, 129
- VIEHR, E. / On Polarimetry in Solar Active Regions. VII: A New Zeeman Polarimeter and its Advantages as Compared to Other Designs **35**, 351
- VIEHR, E. and M. ROSSBACH / On Polarimetry in Solar Active Regions. VI: Experimental Compensation of Telescopic Phase Retardation; Influences on Zeeman Polarimetry **35**, 343
- VIEHR, E., A. WITTMANN, and H. WÖHL / Solar Observations at the Göttingen University Observatory (*Report from a Solar Institute*) **68**, 207
- VIEHR, E., G. STELLMACHER, and H. BALTHASAR / Oscillations of the H α Emission in Solar Prominences **94**, 285 (*Research Note*)
- VIEHR, E., *see* Balthasar, H.
- VIEHR, E., *see* Scholers, W.
- VIEHR, E., *see* Stellmacher, G.
- VIEHR, E., *see* Stellmacher, G.
- VIEHR, E., *see* Stix, M.
- WIESMEIER, A., *see* Brandt, P. N.
- WIGLEY, T. M. L. / Climate and Paleoclimate: What We Can Learn about Solar Luminosity Variations **74**, 435
- WILHBORG, N., *see* Stenflo, J. O. *et al.*
- WIJBENGA, J. W. and C. ZWAAN / Empirical NLTE Analyses of Solar Spectral Lines. I: A Method and Some Applications to Earlier Analyses **23**, 265
- WIJBENGA, J. W., *see* Houtgast, J. *et al.*
- WILCOX, J. M. and L. SVALGAARD / Coronal Magnetic Structure at a Solar Sector Boundary **34**, 461
- WILCOX, John M. and Robert HOWARD / A Large-Scale Pattern in the Solar Magnetic Field **5**, 564
- WILCOX, J. M. and R. HOWARD / Differential Rotation of the Photospheric Magnetic Field **13**, 251
- WILCOX, John M. and Norman F. NESS / Solar Source of the Interplanetary Sector Structure **1**, 437
- WILCOX, J. M. and P. H. SCHERRER / On the Nature of the Apparent Response of the Vorticity Area Index to the Solar Magnetic Field **74**, 421
- WILCOX, J. M., K. H. SCHATTEN, A. S. TANENBAUM, and R. HOWARD / Photospheric Magnetic Field Rotation: Rigid and Differential **14**, 255
- WILCOX, J. M., *see* Dittmer, Ph. H. *et al.*
- WILCOX, J. M., *see* Duvall, Th. L., Jr. *et al.*
- WILCOX, J. M., *see* Heath, D. F. *et al.*
- WILCOX, John M., *see* Howard, Robert
- WILCOX, John M., *see* Ness, Norman F.
- WILCOX, John M., *see* Schatten, Kenneth H.
- WILCOX, J. M., *see* Schatten, K. H. *et al.*
- WILCOX, J. M., *see* Scherrer, P. H.
- WILCOX, J. M., *see* Scherrer, Ph. H. *et al.*
- WILCOX, J. M., *see* Scherrer, P. H. *et al.*
- WILCOX, J. M., *see* Scherrer, P. H. *et al.*
- WILCOX, J. M., *see* Severny, A. *et al.*
- WILCOX, J. M., *see* Stelzried, C. T. *et al.*
- WILCOX, J. M., *see* Svalgaard, L. *et al.*
- WILCOX, J. M., *see* Svalgaard, L. *et al.*
- WILCOX, John M., *see* Tanenbaum, A. S.
- WILD, J. P. / Observation of the Magnetic Structure of a Type IV Solar Radio Outburst **9**, 260
- WILKERSON, T. D. / Reduced Shock Relations in Magnetohydrodynamics **6**, 44
- WILKERSON, T. D., *see* Ogilvie, K. W.
- WILKINSON, C. W., *see* Linsky, J. L. *et al.*
- WILLIAMS, M. D. / Isoelectronic Wavelength Calculations for Argon Spectra **21**, 38 (*Research Note*)
- WILLIAMS, N. V., *see* Wilson, P. R.
- WILLIMCZIK, W., *see* Chertok, J. M. *et al.*
- WILLIS, D. M. and Y. KABASAKAL TULUNAY / Statistics of the Largest Sunspot and Facular Areas per Solar Cycle **64**, 237
- WILLSON, R. C. / Solar Total Irradiance Observations by Active Cavity Radiometers **74**, 217
- WILLSON, R. C., *see* Hudson, H. S.
- WILLSON, R. C., *see* Hudson, H. S. *et al.*
- WILLSON, R. F. / High-Resolution Observations of Solar Radio Bursts at 2, 6, and 20 cm Wavelength **83**, 285
- WILLSON, R. F. / Possible Detection of Thermal Cyclotron Lines from Small Sources within

- Solar Active Regions **89**, 103
- WILLSON, R. F. / VLA Observations of Narrow-band Decimetric Burst Emission **96**, 199
- WILSON, A. M., *see* Chung-Chieh Cheng *et al.*
- WILSON, A. M., *see* Slaughter, C. D.
- WILSON, C., *see* Stebbins, R.
- WILSON, P. R. / The Structure of a Sunspot. I: The Birth and Development of a Sunspot **3**, 243
- WILSON, P. R. / The Structure of a Sunspot. II: The Magnetohydrodynamics of the Penumbra **3**, 454
- WILSON, P. R. / The Structure of a Sunspot. IV: A Two-Dimensional Radiative Transfer Analysis of Center-Limb Intensity Profiles **5**, 338
- WILSON, P. R. / Temperature Fluctuations in the Solar Photosphere **6**, 364
- WILSON, P. R. / On Granulation Models **8**, 20 (*Research Note*)
- WILSON, P. R. / Temperature Fluctuations in the Solar Photosphere. II: The Mean Limb-Darkening and the Second Maximum **9**, 303
- WILSON, P. R. / The Mean Temperature Gradient in the Umbra **9**, 391 (*Research Note*)
- WILSON, P. R. / On the Properties of Umbral Dots **10**, 404
- WILSON, P. R. / Facular Models and the Sunspot Energy Deficit **21**, 101
- WILSON, P. R. / Alfvén Waves in Umbral Flux Tubes **22**, 434
- WILSON, P. R. / The Cooling of a Sunspot. I. A Carnot Cycle and the Hydromagnetic Interactions **27**, 354
- WILSON, P. R. / The Cooling of a Sunspot. II. Convection Zone Models and the Magnetic Power Supply **27**, 363
- WILSON, P. R. / The Cooling of a Sunspot. III: Recent Observations **32**, 435
- WILSON, P. R. / The Cooling of a Sunspot. IV: Reply to D. J. Mullan **35**, 111
- WILSON, P. R. / The Cooling of a Sunspot. V: Reply to M. H. Gokhale **37**, 483 (*Research Note*)
- WILSON, P. R. / Alfvén Waves and the Sunspot Phenomenon **42**, 333
- WILSON, P. R. / The Stability of a Magnetic Flux Element in a Horizontally Stratified Compressible Plasma **55**, 35
- WILSON, P. R. / Faculae, Filigree and Calcium Bright Points **69**, 9
- WILSON, P. R. and C. J. CANNON / The Structure of a Sunspot. III: Observations of the Wilson Effect **4**, 3
- WILSON, P. R. and C. D. EVANS / Center Limb Observations of Inhomogeneities in the Solar Atmosphere. III: Time Dependent Fine Structure of the Ca II Emission **18**, 29
- WILSON, P. R. and P. S. MCINTOSH / The Structure of a Sunspot. V: What is the Wilson Effect? **10**, 370
- WILSON, P. R. and N. V. WILLIAMS / Mean Values in Inhomogeneous Atmospheres **26**, 30
- WILSON, P. R., D. E. REES, J. M. BECKERS, and D. R. BROWN / High Resolution Spectroscopy of the Disk Chromosphere. II: Time Sequence Observations of Ca II H and K Emissions **25**, 86
- WILSON, P. R., *see* Cannon, C. J.
- WILSON, P. R., *see* Cram, L. E.
- WILSON, P. R., *see* McIntosh, P. S.
- WILSON, R. C. / Active Cavity Radiometer Type IV **65**, 109 (*abstract only*)
- WILSON, R. F. / Observations of Preburst Heating and Magnetic Field Changes in a Coronal Loop at 20 cm Wavelength **92**, 189
- WILSON, R. F., *see* Chiuderi-Drago, F. *et al.*
- WILSON, R. M. and E. HILDNER / Are Interplanetary Magnetic Clouds Manifestations of Coronal Transients at 1 AU? **91**, 169
- WILSON, R. M., *see* Krall, K. R. *et al.*
- WILSON, R. M., *see* Sheeley, N. R., Jr. *et al.*
- WILSON, R. M., *see* Smith, J. B., Jr. *et al.*
- WILSON, R. P. / A Three-Component Model for the Formation of the Chromospheric Ca II K Line **15**, 139
- WILSON, W. J., *see* Shimabukuro, F. I. *et al.*
- WINCKLER, J. R., *see* Arnoldy, R. L.
- WINCKLER, J. R., *see* Kane, S. R.
- WINCKLER, J. R., *see* Kane, S. R.
- WINCKLER, J. R., *see* Parks, G. K.
- WINTERBERG, F., *see* McLellan, Alden, IV
- WINTER, J. G., *see* Bray, R. J.
- WINTER, J. G., *see* Loughhead, R. E.
- WINTERS, John B., Jae R. BALLIF, and Douglas E. JONES / A Comparison of the Photospheric and Interplanetary Magnetic Fields during the Flight of Mariner IV **7**, 478
- WITHBROE, G. L. / The Center-Limb Behavior of Solar Molecular Lines **3**, 146
- WITHBROE, G. L. / The Photospheric Abundance of Iron **9**, 19
- WITHBROE, G. L. / Solar XUV Limb Brightening Observations. I: The Lithium-Like Ions **11**, 42
- WITHBROE, G. L. / Solar XUV Limb Brightening Observations. II: Lines Formed in the Chromospheric-Coronal Transition Region **11**, 208
- WITHBROE, G. L. / A Comparison of Solar EUV Intensities and K-Coronameter Measurements **18**, 458
- WITHBROE, G. L. / The Derivation of Temperature Gradient and Electron Density Maps from EUV Spectroheliograms **25**, 116
- WITHBROE, G. L. / The Analysis of XUV Emission

Lines **45**, 301

ITHBROE, G. L. / Evidence for Temporal Variations in Polar Plumes **89**, 77

ITHBROE, G. L. / EUV Observations of Subflares and Surges **99**, 145

ITHBROE, G. L. and J. T. MARISKA / Analysis of EUV-Limb Brightening Observations from ATM. II: Influence of Spicules **48**, 21

ITHBROE, G. L. and J. E. VERNAZZA / Active Region Flare Rates and 8.6 mm Brightness Temperatures **50**, 127

ITHBROE, G. L. and YI-MING WANG / A Model for the Polar Transition Layer and Corona for November 1967 **27**, 394

ITHBROE, G. L., A. K. DUPREE, L. GOLDBERG, M. C. E. HUBER, R. W. NOYES, W. H. PARKINSON, and E. M. REEVES / Coronal Electron Density Maps for 7 March, 1970, Derived from $Mg\ x\ \lambda\ 625$ Spectroheliograms **21**, 272

ITHBROE, G. L., S. R. HABBAL, and R. RONAN / Impulsive Phenomena in a Small Active Region **95**, 297

ITHBROE, G. L., *see* Ahmad, I. A.

ITHBROE, G. L., *see* Bohlin, J. D. *et al.*

ITHBROE, G. L., *see* Dulk, G. A. *et al.*

ITHBROE, G. L., *see* Gurman, J. B. *et al.*

ITHBROE, G. L., *see* Habbal, S. R.

ITHBROE, G. L., *see* Habbal, S. R. *et al.*

ITHBROE, G. L., *see* Kanno, M. *et al.*

ITHBROE, G. L., *see* Levine, R. H.

ITHBROE, G. L., *see* Mariska, J. T.

ITHBROE, G. L., *see* Munro, R. H. *et al.*

ITHBROE, G. L., *see* Noyes, R. W. *et al.*

ITHBROE, G. L., *see* Raghavan, N.

ITHBROE, G. L., *see* Reeves, E. M. *et al.*

ITHBROE, G. L., *see* Schmahl, E. J. *et al.*

ITHBROE, G. L., *see* Wood, A. T. *et al.*

WITTMANN, A. / Some Properties of Umbral Flashes **7**, 366 (*Research Note*)

WITTMANN, A. / On Magneto-Optical Effects in Sunspots **20**, 365

WITTMANN, A. / Prominent Zeeman Lines in Sunspot Spectra and Their Temperature Sensitivity **20**, 78 (*Research Note*)

WITTMANN, A. / On the Elimination of Seeing Effects from Solar Intensity Measurements **21**, 237 (*Research Note*)

WITTMANN, A. / Detection of Blends in the Vicinity of Zeeman Lines **23**, 294

WITTMANN, A. / The Solar Diameter at 5000 Å and H α from Photoelectric Drift Scans **29**, 333

WITTMANN, A. / Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. I: Photographic Measurement of Stokes Parameters **33**, 107

WITTMANN, A. / Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. II: Computation of Stokes Parameter Profiles **35**, 11

WITTMANN, A. / Computation and Observation of Zeeman Multiplet Polarization in Fraunhofer Lines. III: Magnetic Field Structure of Spot Mt. Wilson 18488 **36**, 29

WITTMANN, A. / Photoelectric Drift Scans. II: Time Pulse Evaluation, Limb Profiles, and the Solar Diameter **36**, 65 (*Research Note*)

WITTMANN, A. / Tobias Mayer's Observations of the Sun: Evidence against a Secular Decrease of the Solar Diameter **66**, 223

WITTMANN, A. and E. H. SHRÖTER / The Intensity, Velocity and Magnetic Structure of a Sunspot Region. V: On the Gradients of Temperature and Pressure in Sunspots **10**, 357

WITTMANN, A. and H. WÖHL / Scattered Light – A Comparison between Theory and Experiments during the 1973 Transit of Mercury **44**, 231

WITTMANN, A., *see* Wiehr, E. *et al.*

WITTMANN, A., *see* Wiehr, E. *et al.*

WITTMANN, A., *see* Wöhl, H. *et al.*

WÖHL, H. / On H₂O in Sunspots **9**, 394 (*Research Note*)

WÖHL, H. / Continuum Windows in Spectra of Umbrae (4000–8000 Å) **15**, 338

WÖHL, H. / On Rotational Temperatures of Umbrae **15**, 342 (*Research Note*)

WÖHL, H. / On Molecules in Sunspots **16**, 362

WÖHL, H. / On C₂ Lines in Sunspot Spectra **24**, 342

WÖHL, H. / On the Center-to-Limb and the Infrared Continuum Intensity around 1.75 μ **43**, 285

WÖHL, H. / On the Determination of Heliographic Positions and Rotation Velocities of Sunspots. I: Comparison of Results from Different Observatories and Different Observing Procedures **88**, 65

WÖHL, H. and Å. NORDLUND / A Comparison of Artificial Solar Granules with Real Solar Granules **97**, 213

WÖHL, H., A. WITTMANN, and E. H. SCHRÖTER / A Complete Photoelectric Sunspot Spectrum: an Atlas from 3900 to 8000 Å **13**, 104

WÖHL, H., *see* Abarbanell, C.

WÖHL, H., *see* Balthasar, H.

WÖHL, H., *see* Balthasar, H. *et al.*

WÖHL, H., *see* Balthasar, H. *et al.*

WÖHL, H., *see* Brune, R.

WÖHL, H., *see* Koch, A. *et al.*

WÖHL, H., *see* Roca-Cortes, T. *et al.*

- WÖHL, H., *see* Schröter, E. H. *et al.*
- WOHL, H., *see* Stix, M.
- WÖHL, H., *see* Tönjes, K.
- WOHL, H., *see* Wiehr, E. *et al.*
- WÖHL, H., *see* Wittmann, A.
- WOLFE, J. H., *see* Mihalov, J. D.
- WOLFF, C. L. / What is the Horizontal Scale of the 5-min Oscillations? **32**, 31
- WOLFF, R. S. / Measurement of the X-Ray Emission of the Solar Atmosphere during a Period of Low Activity **34**, 163
- WOLFF, C. L. / An Anticorrelation between Polar and Equatorial Rotation of the Solar Photosphere **41**, 297
- WOLFF, C. L. / Solar Irradiance Changes Caused by g-Modes and Large-Scale Convection **93**, 1
- WOLFF, R. S., *see* Landecker, P. B.
- WOLFF, R. S., *see* Parkinson, J. H. *et al.*
- WOLFSON, C. J. / Soft X-Ray Emission from Active Regions Shortly before Solar Flares **76**, 377
- WOLFSON, C. J., L. W. ACTON, J. W. LEIBACHER, and D. T. ROETHIG / Early Evolution of an X-Ray Emitting Solar Active Region **55**, 181
- WOLFSON, C. J., L. W. ACTON, and D. W. DATLOWE / Does the Emission Measure Decrease during the Start of a Soft X-Ray Flare? **59**, 373 (*Research Note*)
- WOLFSON, C. J., *see* Acton, L. W. *et al.*
- WOLFSON, C. J., *see* Acton, L. W. *et al.*
- WOLFSON, C. J., *see* Lites, B. W. *et al.*
- WOLFSON, C. J., *see* Poland, A. I. *et al.*
- WOLFSON, C. J., *see* Wu, S. T. *et al.*
- WOOD, R., *see* Bird, M. K. *et al.*
- WOOD, A. T., JR., R. W. NOYES, A. K. DUPREE, M. C. E. HUBER, W. H. PARKINSON, E. M. REEVES, and G. L. WITHBROE / Solar Flares in the Extreme Ultraviolet. I: The Observations **24**, 169
- WOOD, A. T., JR., R. W. NOYES, A. K. DUPREE, M. C. E. HUBER, W. H. PARKINSON, E. M. REEVES, and G. L. WITHBROE / Solar Flares in the Extreme Ultraviolet. II: Comparisons with Other Observations **24**, 180
- WOOD, A. T., *see* Donnelly, R. F. *et al.*
- WOODARD, M. and H. HUDSON / Solar Oscillations Observed in the Total Irradiance **82**, 67
- WOODARD, M. and H. HUDSON DONNELLY, R. F. *et al.*
- WOODARD, M. and H. HUDSON DONNELLY, R. F. *et al.*
- WOODARD, M., *see* Hudson, H. S. *et al.*
- WOODARD, M., *see* Hudson, H. S. *et al.*
- WOODARD, M., *see* Hudson, H. S. *et al.*
- WOODGATE, B. E., E. A. TANDBERG-HANSEN, E. C. BRUNER, J. M. BECKERS, J. C. BRANDT, W. HENZE, C. L. HYDER, M. W. KALET, P. J. KENNY, E. D. KNOX, A. G. MICHALITSANOS, R. REHSE, R. A. SHINE, and H. D. TINSLEY / The Ultraviolet Spectrometer and Polarimeter on the Solar Maximum Mission **65**, 73
- WOODGATE, B. E., *see* De Jager, C. *et al.*
- WOODGATE, B. E., *see* Henze, W., Jr. *et al.*
- WOODGATE, B. E., *see* Poland, A. I. *et al.*
- WOODGATE, B. E., *see* Švestka, Z. *et al.*
- WOODGATE, B. E., *see* Švestka, Z. *et al.*
- WOODGATE, B. W., *see* Hagyard, M. J. *et al.*
- WOODGATE, B., *see* Henoux, J.-C. *et al.*
- WOODGATE, B., *see* Tandberg-Hanssen, E. *et al.*
- WOODS, D. T. and L. E. CRAM / High Resolution Spectroscopy of the Disk Chromosphere. VIII. Oscillations in Plage and Quiet Sun Regions **69**, 233
- WORDEN, S. P. / Infrared Observations of Supergranule Temperature Structure **45**, 521
- WORDEN, S. P. and G. W. SIMON / A Study of Supergranulation Using a Diode Array Magnetograph **46**, 73
- WORDEN, S. P., J. M. BECKERS, and T. HIRAYAMA / The He⁺ 4686 Line in the Low Chromosphere **28**, 27
- WORDEN, S. P., *see* Altrock, R. C. *et al.*
- WORDEN, S. P., *see* Pardon, L. *et al.*
- WORDEN, S. P., *see* Teske, R. G. *et al.*
- WORRALL, Gordon / On the Frequency Dependence of the Line Source Function **8**, 18 (*Research Note*)
- WOUTERS, A., *see* Hirschberg, J. G. *et al.*
- WRAGG, M. A. and E. R. PRIEST / The Temperature-Density Structure of Coronal Loops in Hydrostatic Equilibrium **70**, 293
- WRAGG, M. A. and E. R. PRIEST / Thermally Isolated Coronal Loops in Hydrostatic Equilibrium **80**, 309 (*Research Note*)
- WRIGHT, C. S. and L. F. MCNAMARA / The Relationships between Disappearing Solar Filaments, Coronal Mass Ejections, and Geomagnetic Activity **87**, 401
- WRIGHT, C. S., *see* McNamara, L. F.
- WU, S. T., L. C. KAN, Y. NAKAGAWA, and E. TANDBERG-HANSEN / Effect of Thermal Conduction and Radiation on the Dynamics of a Flaring Coronal Loop **70**, 137
- WU, S. T., M. DRYER, P. S. MCINTOSH, and E. REICHMANN / Partial Analysis of the Flare-Prominence of 30 April 1974 **44**, 117
- WU, S. T., M. DRYER, and S. M. HAN / Interplanetary Disturbances in the Solar Wind Produced by Density, Temperature, or Velocity Pulses at 0.08 AU **49**, 187

- YU, S. T., M. DRYER, and S. M. HAN / Non-Planar MHD Model for Solar Flare-Generated Disturbances in the Heliospheric Equatorial Plane **84**, 395
- YU, S. T., Y. Q. HU, K. R. KRALL, M. J. HAGYARD, and J. B. SMITH, JR. / Modeling of Energy Buildup for a Flare-Productive Region **90**, 117
- YU, S. T., S. WANG, M. DRYER, A. I. POLAND, D. G. SIME, C. J. WOLFSON, L. E. ORWIG, and A. MAXWELL / Magnetohydrodynamic Simulation of the Coronal Transient Associated with the Solar Limb Flare of 1980, June 29, 18:21 UT **85**, 351
- YU, S. T., *see* Dowdy, Jr., J. F. *et al.*
- YU, S. T., *see* McGuire, J. P. *et al.*
- YU, S. T., *see* Nagai, F. *et al.*
- YU, S. T., *see* Nakagawa, Y. *et al.*
- YU, S. T., *see* Nakagawa, Y. *et al.*
- YU, S. T., *see* Smith, J. B., Jr. *et al.*
- YU, S. T., *see* Steinolfson, R. S. *et al.*
- YVLLER, A. A. and HONG SIK YUN / On D-C Electrical Conductivity in a Partially Ionized Solar Magnetoplasma **21**, 116
- YVLLER, A. A., *see* Fay, T. D.
- YVLLER, A. A., *see* Lites, B. W. *et al.*
- YVLLER, A. A., *see* Yun, H. S.
- YVLLER, A., *see* Kneer, F. *et al.*
- ZANTHAKIS, John / On a Relation between the Indices of Solar Activity in the Photosphere and the Corona **10**, 168
- ZANTHAKIS, J. and C. POULAKOS / A Forecast of Solar Activity for the 21st Solar Cycle **56**, 467 (*Research Note*)
- ZANTHAKIS, J., B. PETROPOULOS, and H. MAVROMICHALAKI / The Evolution and the Secondary Maximum of the Green Line Intensity **76**, 181
- ZHAOQING, L. and S. MUTAO / Coupling Equations for a Flow-Wave Field Used to Faculae Heating **75**, 83
- ZHUAN, J. Y., *see* Takakura, T. *et al.*
- ZHUE, M. L. and J. CHEN / MHD Equilibrium and Stability Properties of a Bipolar Current Loop **84**, 119
- ZACKOVICH, M. L., *see* Keil, S. L.
- ZAKOVKIN, N. A. / Solar Physics at the Kiev University Observatory **27**, 493 (*Report from Solar Institute*)
- ZAKOVKIN, N. A. and M. YU. ZELDINA / The Helium Radiation in Prominences **19**, 414
- ZAKOVKIN, N. A. and M. YU. ZELDINA / The Prominence Radiation Theory **45**, 319
- ZALLOP, B. D. and C. Y. HOHENKERK / Distribution of Sunspots 1874–1976 **68**, 303 (*Research Note*)
- YANG, C. Y., R. W. NICHOLLS, and F. J. MORGAN / Studies of the Prominence-Corona Transition Zone from Rocket Ultraviolet Spectra of the March 1970 Eclipse **45**, 351
- YANG, C., *see* Jones, T. L. J. *et al.*
- YANG, H.-S., H.-M. CHANG, and J. W. HARVEY / The Theory of Quadrupolar Sunspots and the Active Region of August, 1972 **84**, 139
- YASAKAWA, E. A., *see* Fisher, R. R. *et al.*
- YEH, T. / Subsonic Flows in the Coronal-Interplanetary Regions of Closed Field Lines **55**, 241
- YEH, T. / Topological Structure of Coronal-Interplanetary Magnetic Field **56**, 439
- YEH, TYAN / A Magnetohydrodynamic Theory of Coronal Loop Transients **78**, 287
- YEH, T. / Hydromagnetic Buoyancy Force in the Solar Atmosphere **95**, 83
- YEH, T. and M. DRYER / An Acceleration Mechanism for Loop Transients in the Outer Corona **71**, 141
- YEH, T. and G. W. PNEUMAN / A Sheet-Current Approach to Coronal-Interplanetary Modeling **54**, 419
- YERLE, R., *see* Rösch, J.
- YIP, W. K. / A Model for Drift Pair and Hook Burst Emission from the Solar Corona **24**, 197
- YIP, W. K. / A Theory of the Origin of the Split Pair Burst Emission from the Solar Corona **30**, 513
- YOSHIDA, S., *see* Akasofu, S.-I.
- YOSHII, Y., *see* Kaburaki, O.
- YOSHIMORI, M., K. OKUDAIRA, Y. HIRASIMA, and I. KONDO / Gamma-Ray Observations from HINOTORI **86**, 375
- YOSHIMORI, M., *see* Nitta, N. *et al.*
- YOSHIMURA, H. / Complexes of Activity of the Solar Cycle and Very Large Scale Convection **18**, 417
- YOSHIMURA, H. / On Time Variations of the Solar Differential Rotation Law and Asymmetry of the Global Distribution of the Solar Activity **22**, 20
- YOSHIMURA, H. / On the Characteristics of the Basic Framework of Solar Active Regions and the Magnetohydrodynamical Structure of the Convection Zone **33**, 131
- YOSHIMURA, H. / Solar Cycle General Magnetic Fields of 1959–1974 and Dynamical Structure of the Convection Zone **47**, 581
- YOSHIMURA, H. / Phase Relation between the Poloidal and Toroidal Solar-Cycle General Magnetic Fields and Location of the Origin of the Surface Magnetic Fields **50**, 3
- YOSHIMURA, H. / Coronal General Magnetic Field Evolution as a New Parameter of the Solar

- Cycle 52, 41
- YOSHIMURA, H. / Solar-Cycle Evolution of the Coronal General Magnetic Field of 1959–1974 and the Synchronous Variation of High-Speed Solar Wind Streams and Galactic Cosmic Rays 54, 229
- YOSHIMURA, H. / Solar Cycle Dynamo Wave Origin of Sunspot Intensity and X-Ray Bright Point Number Variation 87, 251
- YOUNG, A. T. and R. A. SCHORN / Improved Solar Wavelengths between 7780 and 7925 Å 15, 97
- YOUNG, A. T., *see* Schorn, R. A. *et al.*
- YOUNG OH, *see* Billings, D. E.
- YOUNG, R. M., *see* Neupert, W. M.
- YOUSEF, S., *see* Takakura, T.
- YOUSSEF, N. H., *see* Hauge, Ø.
- YOUYI, Z., *see* Qing, L. X. *et al.*
- YUN, H. S. / On Efficiency of Convection of Öpik's Cellular Convection Theory 63, 31 (*Research Note*)
- YUN, H. S. and H. A. BEEBE / Intensity Ratios of Spectral Cores Ca II K to H across a Sunspot 78, 347 (*Research Note*)
- YUN, H. S. and A. A. WYLLER / Thermal Conductivity in Solar Magnetoplasmas 27, 44
- YUN, H. S., H. A. BEEBE, and W. BAGGETT / A Model of a Penumbral Chromosphere 92, 145
- YUN, H. S., *see* Beebe, H. A. *et al.*
- YUN, H. S., *see* Fay, T. D. *et al.*
- YUN, H. S., *see* Mullan, D. J.
- ZACHARIADIS, TH. G., *see* Alissandrakis, C. E. *et al.*
- ZACH, R. and V. BAR / The Recurrent Surges in McMath 9760 and Associated Surge Brightenings 73, 331
- ZAHN, J.-P., *see* Latour, J. *et al.*
- ZAITSOVA, S. A., *see* Pudovkin, M. I. *et al.*
- ZAITSOVA, S. A., *see* Pudovkin, M. I. *et al.*
- ZAITSEV, V. V. / A Pulsating Regime of Stream Instability and the Origin of 'Rain' Type Radio Bursts 20, 95
- ZAITSEV, V. V. and A. V. STEPANOV / The Plasma Radiation of Flare Kernels 88, 297
- ZAITSEV, V. V. and A. V. STEPANOV / On the Relation between Solar-Flare Gamma-Ray Emission and Proton Escape into Interplanetary Space 99, 313
- ZAITSEV, V. V., N. A. MITYAKOV, and V. O. RAPOPORT / A Dynamic Theory of Type III Solar Radio Bursts 24, 444
- ZAITSEV, V. V., O. G. PARFENOV, and A. V. STEPANOV / The Structure of the Turbulent Shock Wave Propagating in the Solar Atmosphere across the Magnetic Field 60, 279
- ZAITSEV, V. V., A. V. STEPANOV, and G. P. CHERNOV / Pulsations of Type IV Radio Bursts as an Indicator of Protonability of Solar Flares 93, 363
- ZAITSEV, V. V., *see* Abranin, E. P. *et al.*
- ZAITSEV, V. V., *see* Abranin, E. P. *et al.*
- ZAITSEV, V. V., *see* Abranin, E. P. *et al.*
- ZAITSEV, V. V., *see* Abranin, E. P. *et al.*
- ZAITSEV, V. V., *see* Baselyan, L. L. *et al.*
- ZAITSEV, V. V., *see* Bazelyan, L. L. *et al.*
- ZAITSEV, V. V., *see* Gubchenko, V. M.
- ZAITSEV, V. V., *see* Gubchenko, V. M.
- ZANDANOV, V. G. and A. M. URALOV / Pulsations of Microwave Emission as a Consequence of Oscillatory Transients in the Solar Atmosphere 93, 301 (*Research Note*)
- ZANELLI, C. and P. ZLOBEC / Noise Storms and Particular Photospheric Magnetic Structures 53, 497
- ZANELLI, C., P. ZLOBEC, and U. KOREN / Analysis of Type III Burst Occurrence in Spotless Regions 65, 387
- ZANELLI, C., *see* Garczyńska, I. N. *et al.*
- ZANG, Z., *see* Qing, L. X. *et al.*
- ZAPPALA, R. A., *see* Belvedere, G. *et al.*
- ZAPPALA, R. A., *see* Serio, S. *et al.*
- ZAPPALA, R. A., *see* Ternullo, M. *et al.*
- ZASTENKER, G. N., *see* D'Uston, C. *et al.*
- ZATSEPIN, G. T., *see* Gavryuseva, E. A. *et al.*
- ZAUMEN, W. T. and L. W. ACTON / Cooling of Solar Flare Plasmas 36, 139
- ZEI, Dino, *see* Malville, J. McKim
- ZELDINA, M. YU., *see* Yakovkin, N. A.
- ZELDINA, M. YU., *see* Yakovkin, N. A.
- ZELDINA, M. YU., *see* Yakovkin, N. A. *et al.*
- ZELENKA, A. / The Asymmetry of the H α Absorption Coefficient 40, 39
- ZELENKA, A. / The Seven Components of H α and the 9873 MHz Line 58, 17
- ZENTENO, G., *see* Otaola, J. A.
- ZEREFOS, C. S., *see* Papagiannis, M. D. *et al.*
- ZERTZALOV, A. A., *see* Bosqued, J. M. *et al.*
- ZHANG, Z., *see* Smartt, R. N.
- ZHAO, R. Y., *see* Takakura, T. *et al.*
- ZHELEZNYAKOV, V. V. and E. YA. ZLOTNIK / Gyro-Resonance Absorption of Plasma Waves in the Corona and the Fine Structure of Solar Radio Bursts 20, 85
- ZHELEZNYAKOV, V. V. and E. YA. ZLOTNIK / On the Third Harmonic in Solar Radio Bursts 36, 443
- ZHELEZNYAKOV, V. V. and E. YA. ZLOTNIK / Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. I: Bernstein Modes and Plasma Waves in a Hybrid Band 43, 431

- HELEZNYAKOV, V. V. and E. YA. ZLOTNIK / Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. II: Origin of 'Tadpoles' **44**, 447
- HELEZNYAKOV, V. V. and E. YA. ZLOTNIK / Cyclotron Wave Instability in the Corona and Origin of Solar Radio Emission with Fine Structure. III: Origin of Zebra Pattern **44**, 461
- HELEZNYAKOV, V. V. and E. YA. ZLOTNIK / Thermal Cyclotron Radio Emission of Neutral Current Sheets in the Solar Corona **68**, 317
- HELEZNYAKOV, V. V. and YU. V. TIKHOMIROV / Microwave Emission from Hot X-Ray Kernels in Solar Flares **81**, 121
- CHITNIK, I. A., *see* Aglizki, E. V. *et al.*
- CHITNIK, I. A., *see* Beigman, I. L.
- CHITNIK, I. A., *see* Bromboszcz, G. *et al.*
- CHITNIK, I. A., *see* Grineva, Yu. I. *et al.*
- CHITNIK, I. A., *see* Jakimiec, J. *et al.*
- CHITNIK, I. A., *see* Korneev, V. V. *et al.*
- CHITNIK, I. A., *see* Korneev, V. V. *et al.*
- CHITNIK, I. A., *see* Korneev, V. V. *et al.*
- CHITNIK, I. A., *see* Siarkowski, M. *et al.*
- CHITNIK, I. A., *see* Siarkowski, M. *et al.*
- CHITNIK, I. A., *see* Stenflo, J. O. *et al.*
- CHUGZHDA, *see* ŽUGZDA
- CHUKOV, V. I. / On the Linear Transformation and Resonant Absorption of Alfvén p -Modes in Sunspots **98**, 39
- CHILAEV, B. E. / The Space Spectrum of Convective Instability **6**, 351
- CHICHEV, V. A., *see* Abranin, E. P. *et al.*
- CHICHEV, V. A., *see* Abranin, E. P. *et al.*
- CHICHEV, V. A., *see* Baselyan, L. L. *et al.*
- CHICHEV, V. A., *see* Bazelyan, L. L. *et al.*
- CHIN, W., *see* Fürst, E. *et al.*
- CHPOY, D. M., *see* Deming, D. *et al.*
- ZIRIN, H. / George Ellery Hale, 1868–1938 **5**, 435
- ZIRIN, H. / Two Prominence Eruptions and the Problem of Emission **7**, 243
- ZIRIN, H. / Two Prominence Eruptions and the Problem of Emission **7**, 243
- ZIRIN, H. / Interpretation of XUV Spectroheliograms **9**, 77
- ZIRIN, H. / Coronagraph Observations of the Coronal Condensation of 4 February 1962 **11**, 497
- ZIRIN, H. / Active Regions. I: The Occurrence of Solar Flares and the Development of Active Regions **14**, 328
- ZIRIN, H. / Active Regions. II: Mount Wilson 16997. A Small Spot with Big Flares **14**, 342
- ZIRIN, H. / Fine Structure of Solar Magnetic Fields **22**, 34
- ZIRIN, H. / Response to Dr Frazier's Comments **26**, 145 (*Research Note*)
- ZIRIN, H. / The Absence of Flares in $\lambda 3835$ and the Heating of the Chromosphere **26**, 393
- ZIRIN, H. / Studies of K Line Filtergrams **38**, 91
- ZIRIN, H. / Production of a Short-Lived Filament by a Surge **50**, 399
- ZIRIN, H. / Studies of Solar Flares Using Optical, X-Ray and Radio Data **58**, 95
- ZIRIN, H. / The Optical Flare **86**, 173
- ZIRIN, H. and B. LAZAREFF / Sunspot Motion, Flares and Type III Bursts in McMath 11482 **41**, 425
- ZIRIN, H. and D. RUSSO LACKNER / The Solar Flare **41**, 425
- ZIRIN, H., *see* Kozlovsky, Ben-Zion
- ZIRIN, H. and D. RUSSO LACKNER / The Solar Flares of August 28 and 30, 1966 **6**, 86
- ZIRIN, H. and R. L. MOORE / A Continuum Bright Point at the Penumbra Edge **67**, 79 (*Research Note*)
- ZIRIN, H. and K. TANAKA / The Flares of August 1972 **32**, 173
- ZIRIN, H. and K. TANAKA / Prospectus for the Solar Maximum Year **47**, 385 (*Invited Report*)
- ZIRIN, H. and K. TANAKA / Prospectus for the Solar Maximum Year (invited report) **47**, 385
- ZIRIN, H. and Susan WERNER / Detailed Analysis of Flares, Magnetic Fields and Activity in the Sunspot Group of Sept. 13–26, 1963 **1**, 66
- ZIRIN, H., W. INGHAM, H. HUDSON and D. MCKENZIE / De-Occultation X-Ray Events of 2 December, 1967 **9**, 269
- ZIRIN, H., M. LIGGETT, and A. PATTERSON / The H α /H β Ratio in Solar Flares **76**, 387
- ZIRIN, H., R. L. MOORE, and J. WALTER (eds.) / Proceedings of the Workshop: the Solar Constant and the Earth's Atmosphere, 19–21 May 1975 **46**, 377
- ZIRIN, H., G. PRUSS, and J. VORPAHL / Magnetic Fields, Bremsstrahlung and Synchrotron Emission in the Flare of 24 October 1969 **19**, 463
- ZIRIN, H., *see* Foukal, P.
- ZIRIN, H., *see* Hurford, G. J. *et al.*
- ZIRIN, H., *see* Kozlovsky, Ben-Zion
- ZIRIN, H., *see* Liggett, M.
- ZIRIN, H., *see* Liggett, M.
- ZIRIN, H., *see* Liggett, M.
- ZIRIN, H., *see* Pasachoff, J. M.
- ZIRIN, H., *see* Simon, M.
- ZIRIN, H., *see* Simon, M.
- ZIRIN, H., *see* Tandberg-Hanssen, E. *et al.*
- ZIRIN, H., *see* Veeder, G. J.
- ZIRIN, H., *see* Vorpahl, J.
- ZIRIN, H., *see* Wang, J. *et al.*
- ZIRIN, H., *see* Webb, D. F.
- ZIRIN, H., *see* Zodi, A. M. *et al.*

- ZIRKER, J. B. / On the Motions of Chromospheric Fine-Structure in a Weak Plage **1**, 204
- ZIRKER, J. B. / The Solar H and K Lines of Ionized Calcium **3**, 164
- ZIRKER, J. B. / The Excitation Equilibrium of Coronal Ions **11**, 68
- ZIRKER, J. B. / Progress in Coronal Physics **100**, 281 (*Invited Review*)
- ZIRKER, J. B., *see* Dunn, R. B.
- ZIRKER, J. B., *see* Jefferies, J. T. *et al.*
- ZIRKER, J. B., *see* Phillips, K. J. H.
- ZIRKER, J. B., *see* Simon, G. W.
- ŽITNIK, I. A., *see* Beigman, I. L.
- ZLOBEC, P. / Intermediate Polarization of Type I Bursts **43**, 453
- ZLOBEC, P., *see* Mercier, C. *et al.*
- ZLOBEC, P., *see* Zanelli, C. *et al.*
- ZLOTNIK, E. YA., *see* Zheleznyakov, V. V.
- ZLOTNIK, E. YA., *see* Zheleznyakov, V. V.
- ZLOTNIK, E. YA., *see* Zheleznyakov, V. V.
- ZLOTNIK, E. YA., *see* Zheleznyakov, V. V.
- ZODI, A. M., P. KAUFMANN, and H. ZIRIN / Persistent 1.5 s Oscillations Superimposed to a Solar Burst Observed at Two mm-Wavelengths **92**, 283
- ZODI VAZ, A. M., *see* Kaufmann, P. *et al.*
- ZOMBECK, M. V., *see* Nolte, J. T. *et al.*
- ZOMBECK, M. V., *see* Poletto, G. *et al.*
- ZUBIETA, M., *see* Ahluwalia, H.S.
- ZUCCARELLO, F., *see* Noci, G.
- ZUCCARELLO, F., *see* Ternullo, M. *et al.*
- ŽUGŽDA, Y. D. / Tunnel-Effect and Propagation of 5-min Oscillations in the Solar Atmosphere **25**, 329
- ŽUGŽDA, Y. D. and V. LOCANS / Tunneling an Interference of Alfvén Waves **76**, 77
- ŽUGŽDA, YU. D. and V. I. MAKAROV / On the Dynamics of the Chromosphere above Sunspots **81**, 245
- ŽUGŽDA, Y. D., V. LOCANS, and J. STAUDE / Seismology of Sunspot Atmospheres **82**, 369
- ŽUGŽDA, Y. D., J. STAUDE, and V. LOCANS / Mode of the Oscillations in the Chromosphere and Transition Region above Sunspot Umbrae **91**, 219
- ŽUGŽDA, YU. D., *see* Gigolashvili, M. Sh.
- ŽUGŽDA, YU. D., *see* Gigolashvili, M. Sh.
- ŽUGŽDA, YU. D., *see* Kulidzanishvili, V. I.
- ŽUGŽDA, YU. D., *see* Makhmudov, M. M. *et al.*
- ŽUGŽDA, Y. D., *see* Staude, J. *et al.*
- ZWAAN, C. / Structure of Sunspots. II: A Continuum Model Atmosphere for Dark Umbrae Cores **37**, 99
- ZWAAN, C. / Structure of Sunspots. III: A Minimum-Gradient Model Atmosphere for Umbrae **45**, 115 (*Research Note*)
- ZWAAN, C. / On the Appearance of Magnetic Flux in the Solar Photosphere **60**, 213
- ZWAAN, C. / The Emergence of Magnetic Flux **100**, 397 (*Invited Review*)
- ZWAAN, C., J. J. BRANTS, and L. E. CRAM / High-Resolution Spectroscopy of Active Regions. II: Observing Procedures **95**, 3
- ZWAAN, Cornelis / Small-Scale Solar Magnetic Fields and 'Invisible Sunspots' **1**, 478 (*Research Note*)
- ZWAAN, C., *see* Brants, J. J.
- ZWAAN, C., *see* Gokhale, M. H.
- ZWAAN, C., *see* Spruit, H. C.
- ZWAAN, C., *see* Wijbenga, J. W.
- ZWALLY, H. J., *see* Ogilvie, K. W.
- ZWEIBEL, E. / Thermal Stability of a Corona Heated by Fast Mode Waves **66**, 305
- ZWEIBEL, E. G. and A. J. HUNDHAUSEN / Magnetospheric Atmospheres: a Family of Isothermal Solutions **76**, 261
- ZWEIBEL, E. G., *see* Spruit, H. C.
- ZWICKL, R. D. and W. R. WEBBER / Solar Particle Propagation from 1 to 5 AU **54**, 457
- ZWINGMANN, W., K. SCHINDLER, and J. BIRN / On Sheared Magnetic Field Structures Containing Neutral Points **99**, 133

BOOK REVIEWS

- Annals of the IQSY* (Z. ŠVESTKA) **12**, 502
- Atti del convegno sui campi magnetici solari e la spettroscopia ad alta risoluzione* (C. DE JAGER) **3**, 623
- Audouze, Jean and Sylvie Vanclair, *An Introduction to Nuclear Astrophysics* (A. MASSEVITCH) **68**, 423
- Bashkin, S., *Beam-Foil Spectroscopy* (R. PETRASSO) **57**, 241
- Bauer, S. J., *Physics of Planetary Ionospheres* (C. DE JAGER) **34**, 507
- Beer, A. (ed.), *Vistas in Astronomy* (C. DE JAGER) **36**, 239
- Bertotti, B., F. de Felice, and A. Pascolini (eds.), *General Relativity and Gravitation* (J. SCHRIJVER) **98**, 195
- Böhme, S., U. Esser, W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn, H. Scholl, and G. Zech (eds.), *Astronomy and Astrophysics Abstracts*, Vol. 12, Literature 1974, Part 2 (Z. ŠVESTKA) **45**, 543
- Böhme, S., U. Esser, W. Fricke, U. Güntzel-Lingner, I. Heinrich, F. Henn, D. Krahn, L. D. Schmadel, H. Scholl, and G. Zech (eds.), *Astronomy and Astrophysics Abstracts*, Vols. 13 and 14, Literature 1976, Parts 1 and 2 (Z. ŠVESTKA) **52**, 229
- Böhme, S., U. Esser, W. Fricke, U. Güntzel-Lingner, I. Heinrich, F. Henn, D. Krahn, L. D. Schmadel, H. Scholl, and G. Zech (eds.), *Astronomy and Astrophysics Abstracts*, Vols. 17 and 18, Literature 1976, Part 1 and 2 (Z. ŠVESTKA) **57**, 483
- Böhme, S., U. Esser, W. Fricke, I. Heinrich, W. Hoffman, D. Krahn, D. Rosa, L. D. Schmadel, and G. Zech (eds.), *Astronomy and Astrophysics Abstracts*, Vols. 25 and 26, Literature 1979, Part 1 and 2 (Z. ŠVESTKA) **69**, 419
- Böhme, S., W. Fricke, H. Hefele, I. Heinrich, W. Hoffmann, D. Krahn, V. R. Matas, L. D. Schmadel, and G. Zech (eds.), *Astronomy and Astrophysics Abstracts*, Vol. 31, Literature 1982, Part 1; Vol. 32, Literature 1982, Part 2; Vol. 33, Literature 1983, Part 1; Vol. 34, Literature 1983, Part 2 (Z. ŠVESTKA) **94**, 427
- Bonnet, R. M. and A. K. Dupree (eds.), *Solar Phenomena in Stars and Stellar Systems* (C. J. SCHRIJVER) **79**, 400
- Böhme, S., W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn, and G. Zech (eds.), *Astronomy and Astrophysics Abstracts*, Vol. 2, Literature 1969, Part 2 (JOSIP KLECZEK) **16**, 238
- Bray, R. J., R. E. Loughhead, and C. J. Durrant, *The Solar Granulation* (N. O. WEISS) **96**, 423
- Bray, R. J. and R. E. Loughhead, *The Solar Chromosphere* (R. GRANT ATHAY) **43**, 513
- Chinese Astronomy and Astrophysics* (Formerly *Chinese Astronomy*), Vol. 5, No. 1 (M. E. MACHADO) **79**, 399
- Esser, U., I. Heinrich, F. Henn, D. Krahn, H. Scholl, and G. Zech (eds.), *Astronomy and Astrophysics Abstracts*, Vols. 15 and 16, Author and Subject Indexes to Volumes 1–10, Literature 1968–1973 (Z. ŠVESTKA) **52**, 229
- Françon, Maurice, *Séparation des radiations par les filtres optiques* (B. VALNÍČEK) **94**, 427
- Fricke, W., U. Güntzel-Lingner, F. Henn, D. Krahn, and G. Zech (eds.), *Astronomy and Astrophysics Abstracts*, Vol. 1, Literature 1969, Part 1 (Z. ŠVESTKA) **12**, 502
- Gehrels, T. (ed.), *Planets, Stars and Nebulae, studied with Photopolarimetry* (AUDOUIN DOLLFUS) **38**, 533
- Gibson, E. G., *The Quiet Sun* (R. M. BONNET) **33**, 524
- Herman, J. R. and R. A. Goldberg, *Sun, Weather and Climate* (L. I. KŘIVSKÝ) **65**, 411
- Hey, J. S., *The Evolution of Radio-Astronomy* (C. DE JAGER) **34**, 507
- King, J. W. and W. S. Newman (eds.), *Solar Terrestrial Physics* (L. D. DE FEITER) **3**, 623
- Krüger, Albrecht, *Introduction to Solar Radio Astronomy and Radio Physics* (V. ZHELEZNYAKOV) **68**, 213
- Martin, W. C., R. Zalubas, and L. Hagan, *Atomic Energy Levels – The Rare Earth Elements* (R. MEWE) **62**, 221
- Mihalas, D., *Stellar Atmospheres* (FRANCOISE PRADERIE) **63**, 217
- Noyes, Robert W., *The Sun, Our Star* (J. JAKIMIEC) **94**, 203
- NSF Solar Eclipse 1970*, *Bulletin F* (JAY M. PASACHOFF) **18**, 177
- Orrall, F. Q. (ed.), *Solar Active Regions* (A. DUIJVENMAN) **79**, 399
- Proceedings of the Eleventh International Conference on Cosmic Rays, Budapest, 25 August–4 September, 1969*, Vol. II (J. J. QUENBY) **22**, 240
- Proceedings of the Eleventh International Conference on Cosmic Rays, Budapest, 25 August–4 September*

- ber, 1969, Vol. IV (H. R. ALLAN) **22**, 241
Proceedings of the Eleventh International Conference on Cosmic Rays Budapest, 25 August-4 September, 1969, Vol. III (G. W. HUTCHINSON) **22**, 241
Report of the Solar Astronomy Task Force (JAY M. PASACHOFF) **43**, 513
 Schatzman, E. (ed.), *Cargèse lectures in Physics* (C. DE JAGER) **36**, 239
 Shapiro, M. M. (ed.), *Composition and Origin of Cosmic Rays* (KUNITOMO SAKURAI) **91**, 415
 Stenflo, J. O. (ed.), *Solar and Stellar Magnetic Fields: Origins and Coronal Effects* (R. MEWE) **91**, 193
 Swenson, J. W., W. S. Benedict, L. Delbouille, and G. Roland, *The Solar Spectrum from Lambda 7498 to Lambda 12016. A Table of Measures and Identification* (C. DE JAGER) **22**, 240
 Tandberg-Hanssen, Einar, *Solar Activity* (J. KLECZEK) **4**, 375
The Photographic Journal of the Sun (C. DE JAGER) **4**, 375
 Unsöld, Albrecht, *Der Neue Kosmos* (J. HOUTGAST) **4**, 126
 West, Richard M. (ed.), *Understanding the Universe, The Impact of Space Astronomy* (FRANTIŠEK FÁRNÍK) **91**, 193
 Xanthakis, J. (ed.), *Proceedings of the First European Astronomical Meeting*, Vol. 1 (A. BRUZEK) **34**, 507
 Zeldovich, Ya. B., A. A. Ruzmaikin, and D. D. Sokoloff, *Magnetic Fields in Astrophysics* (P. C. H. MARTENS) **98**, 195

ABSTRACTS OF FORTHCOMING PAPERS **5**, 429, 592; **6**, 165, 355, 510; **7**, 164, 339, 499; **8**, 249, 503; **9**, 250, 506; **10**, 235, 511; **11**, 162, 342, 515; **12**, 167, 341, 504; **13**, 247, 499; **14**, 245, 508; **15**, 256, 508; **16**, 239, 501; **17**, 270, 509; **18**, 178, 341, 511; **19**, 277; **20**, 230, 513; **21**, 250; **22**, 243; **23**, 251; **24**, 247, 499; **25**, 252, 500; **26**, 257, 484; **27**, 242, 505; **28**, 263, 543; **29**, 267, 527; **30**, 263, 543; **31**, 271, 525; **32**, 271, 507; **33**, 525; **34**, 259, 509; **35**, 489; **36**, 241, 523; **37**, 261, 497; **38**, 271, 535; **39**, 261, 509; **40**, 247, 511; **41**, 247, 499; **42**, 271, 533; **43**, 261, 515; **44**, 239, 519; **45**, 267, 503; **46**, 253, 545; **47**, 627; **48**, 187, 423; **49**, 205, 409; **50**, 231, 505; **51**, 243, 489; **52**, 231, 497; **53**, 199, 539; **54**, 259, 511; **55**, 263.

ABSTRACTS OF PAPERS FROM OTHER JOURNALS **2**, 381, 502; **3**, 364, 493; **4**, 127, 259, 376, 498; **5**, 427, 588; **6**, 155, 504; **8**, 248, 491; **9**, 250, 508; **10**, 238, 513; **11**, 173, 343; **12**, 170, 347, 509; **13**, 504; **14**, 249, 515; **16**, 244, 508; **17**, 277; **18**, 183; **19**, 280, 494; **20**, 244, 517; **21**, 255; **22**, 252, 503; **23**, 501; **24**, 252, 505; **25**, 504; **26**, 260, 291; **27**, 245, 510; **28**, 267, 546; **29**, 270; **30**, 273; **31**, 275, 532; **32**, 277, 513; **33**, 259; **34**, 266, 518; **35**, 495; **36**, 530; **37**, 264, 505; **38**, 278, 539; **39**, 267, 512; **40**, 512; **41**, 251, 503; **42**, 539; **43**, 265, 521; **44**, 247; **45**, 269, 548; **46**, 265; **48**, 187; **49**, 207, 413; **50**, 509; **51**, 245, 493; **52**, 237; **53**, 205, 545; **54**, 261; **55**, 267, 519

ANNOUNCEMENT **1**, 504; **38**, 280; **41**, 511; **52**, 229; **55**, 273; **58**, 429; **62**, 9; **87**, 419; **88**, 392; **100**, 620

AWARD OF GEORGE ELLERLY HALE PRIZE TO J. PAUL WILD **68**, 419, 421

CHANGE OF ADDRESS **52**, 240, 498

CONTENTS OF THE SOLAR ECLIPSE ISSUE OF *J. Atmospheric Terrest. Phys.* **34**, No. 4, **21**, 496

DISCUSSIONS

'How Flares Can Be Understood' **53**, 235, 243, 259, 281, 291

'Recent Advances in the Understanding of Solar Flares' **86**, 435

EDITORIAL **1**, 3, 303; **3**, 3, 4; **5**, 259; **8**, 3; **10**, 243; **56**, 3; **58**, 3; **60**, 3; **100**, ix

FILM WITH EXAMPLES OF SOLAR ACTIVITY **18**, 340.

IN MEMORIAM

LEEN DE FEITER **47**, I

R. G. GIOVANELLI, by John T. JEFFERIES **94**, 1

K. O. KIEPENHEUER, by A. BRUZEK **43**, 3

V. A. KRAT, by V. M. SOBOLEV and YU. I. VITINSKY **89**, 1

GUBIELMO RIGHINI, by L. ROSINO **62**, 3

S. I. SYROVATSKII, by S. L. MANDEL'STAM and B. V. SOMOV **67**, 3

LIST OF PAPERS FROM OTHER JOURNALS **60**, 507; **62**, 413; **66**, 195, 417; **73**, 209; **76**, 191; **80**, 199; **85**, 375; **89**, 223; **92**, 383; **95**, 397; **97**, 415; **98**, 395

LIST OF PARTICIPANTS at the US-Japan Seminar 'Recent Advances in the Understanding of Solar Flares' **86**, xi

PUBLISHER'S NOTICE **89**, 443; **90**, 204; **94**, 205; **95**, 1; **100**, vii

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ACKNOWLEDGMENT BY KAREN L. HARVEY v

LIST OF SUBJECTS 1

SUBJECT INDEX (VOLUMES 1-100) 9

NAME INDEX (VOLUMES 1-100) 525

BOOK REVIEWS 669

Abstracts of Forthcoming Papers – Abstracts of Papers from Other Journals –
Announcements – Award of George Ellery Hale Prize to J. Paul Wild –
Changes of Address – Contents of the Solar Eclipse Issue – Discussions –
Editorials – Film with Examples of Solar Activity – In Memoria – Lists of
Papers from Other Journals – List of Participants – Publisher's Notices 671
